Order No. MD0201005C2

Service Manual

CD Stereo System

SA-PM07E / SA-PM07EB / SA-PM07EG

Colour

(S) ... Silver Type

Tape Deck: SG2 Mechanism Series

Traverse Deck: RAE0155Z-1V Traverse Deck Series

SPECIFICATIONS

■ Amplifier Section

RMS power output	
THD 10%,	
both channels driven	**7.5 W per channel (6 Ω)**
Input sensitivity	
AUX	**250 mV**
Input impedance	
AUX	**23 k Ω**
Output impedance	
Headphone	**16-32 Ω**

■ FM Tuner Section

Frequency range	**87.50-108.00 MHz (0.05 MHz step)**
Sensitivity	**1.8 μ V (IHF)**
S/N 26 dB	**1.5 μ V**
Antenna terminal(s)	**75 Ω (unbalanced)**

■ AM Tuner Section

Frequency range	**522-1629 kHz (9 kHz steps)**
Sensitivity	
S/N 20 dB (at 999 kHz)	**500 μ V/m**

■ Cassette Deck Section

Track system	**4 track, 2 channel**
Heads	
Record/playback	**Solid permalloy head**
Erasure	**AC erase head**
Motor	**DC servo motor**
Recording system	**AC bias 100 kHz**
Erasing system	**AC erase 100 kHz**
Tape speed	**4.8 cm/s**
Overall frequency response (+3 to -6dB) at Deck Out	
Normal (type I)	**50 Hz - 13 kHz**
S/N	**52 dB (A weighted)**
Wow and flutter	**0.15% (WRMS)**
Fast forward and rewind times	**Approx. 120 seconds with C-60 cassette tape**

■ CD Section

Sampling frequency	**44.1 kHz**
Decoding	**16 bit linear**
Beam source	**Semiconductor laser**
Wavelength	**780 nm**
Number of channels	**2 channels stereo**
Wow and flutter	**Below measurable limit**
Digital filter	**8 fs**
D/A converter	**MASH (1 bit DAC)**

■ General

Power supply	

Power supply	
For Continental Europe	**AC 220-230 V, 50 Hz**
For United Kingdom, Australia and N.Z.	**AC 230-240 V, 50 Hz**
Power consumption	**34 W**
Dimensions (W x H x D)	**160 x 195 x 320 mm**
Mass	**3.6 kg**
Power consumption in standby mode :	**0.8 W**
■ **System: SC-PM07(E)**	**Music Center: SA-PM07(E)** **Speaker: SB-PM07(E)**
■ **System: SC-PM07(EB)**	**Music Center: SA-PM07(EB)** **Speaker: SB-PM07 (E)**
■ **System: SC-PM07(EG)**	**Music Center: SA-PM07 (EG)** **Speaker: SB-PM07 (EG)**

Notes:

1. Specifications are subject to change without notice. / Mass and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.

Panasonic

1. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C512, C833, C834 through a 10 Ω, 5 W resistor to ground. DO NOT SHORT-CIRCUIT DIRECTLY (with a screw driver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid over current. Current consumption at AC 230 V, 50 Hz in NO SIGNAL mode should be ~200 mA.

2. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.

- Stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.

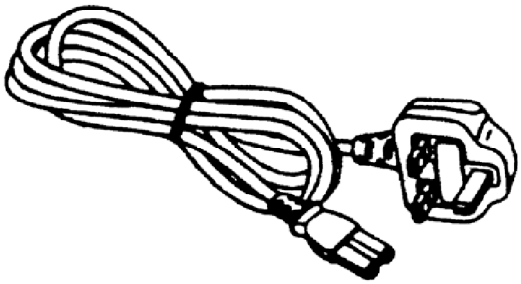
2. Determine the cause of the problem and correct it.

3. Turn on the power once again after one minute.

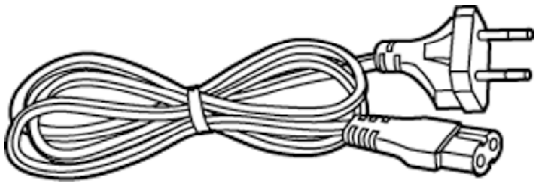
Note:
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

3. Accessories

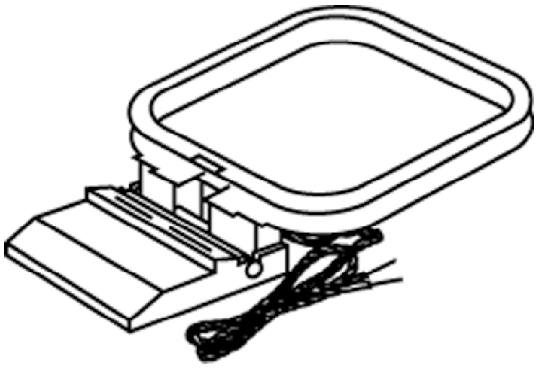
AC Mains Lead (EB).....1 pc



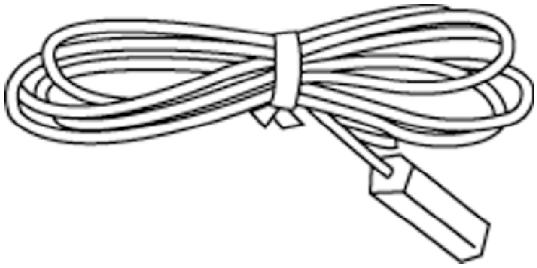
AC Mains Lead (E/EG).....1 pc



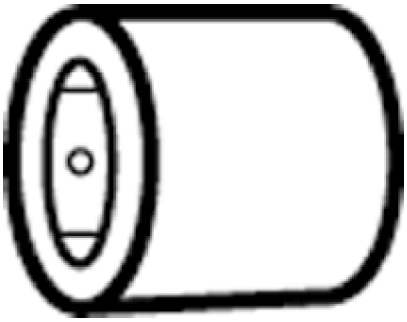
AM Loop Antenna.....1 pc



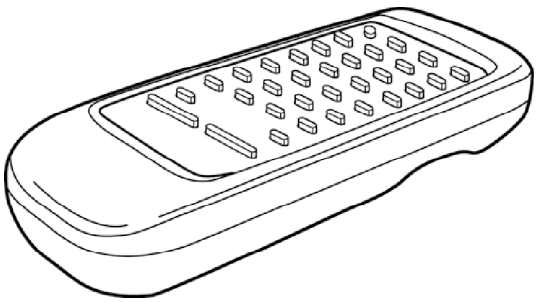
FM Indoor Antenna.....1 pc



Antenna Plug Adaptor (EB).....1 pc



Remote Control.....1 pc



4. Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body. So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

- Handling of traverse deck (optical pickup)

1. **Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.**
2. **To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into the flexible board (FFC board).**
3. **Take care not to apply excessive stress to the flexible board (FFC board). When removing or connecting the short pin, finish the job in as short time as possible.**
4. **Do not turn the variable resistor (laser power adjustment). It has already been adjusted.**

- Grounding for electrostatic breakdown prevention

1. **Human body grounding**
   Use the anti-static wrist strap to discharge the static electricity from your body.
2. **Work table grounding.**
   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is place, and ground the sheet.

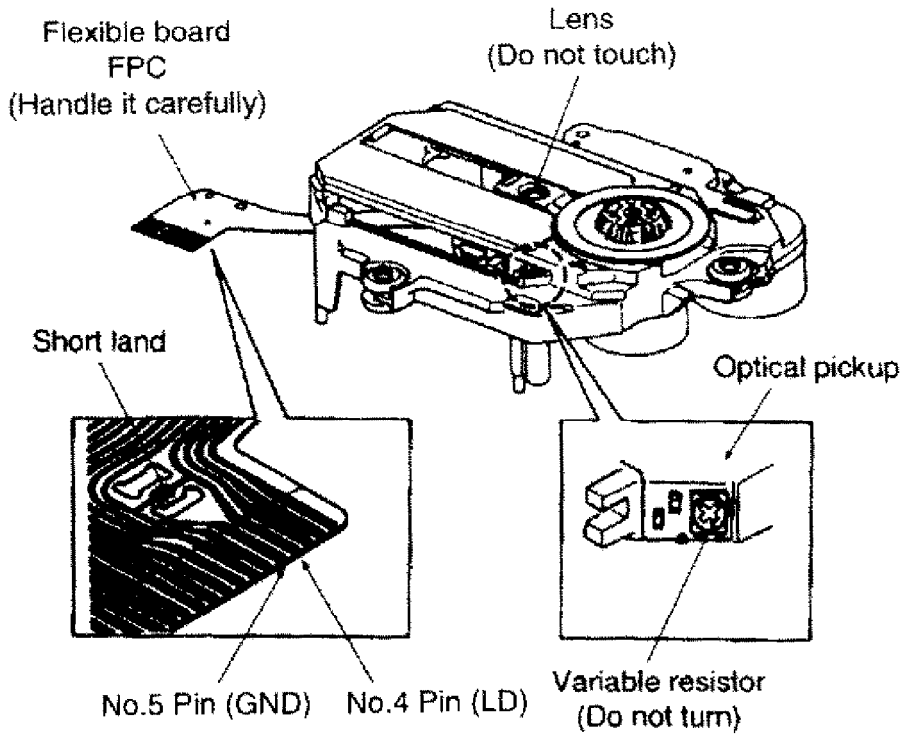
Caution:

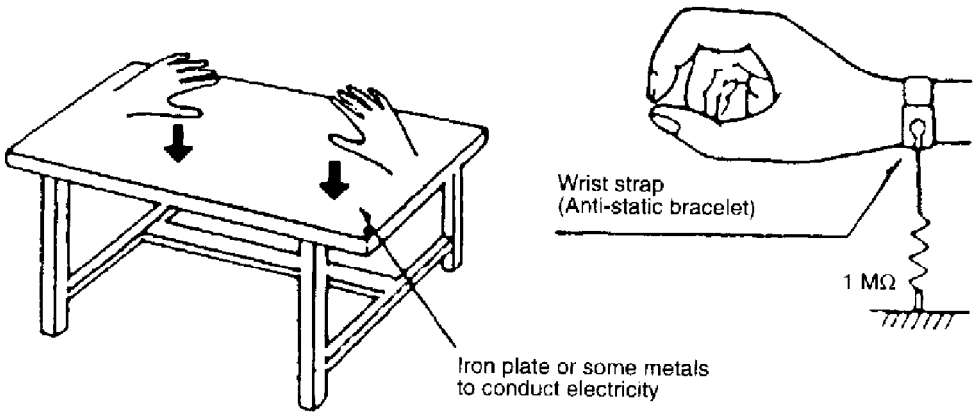
The static electricity of your clothes will not be grounded through

the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

Caution when replacing the Traverse Deck

The traverse deck has a short point shorted with solder to protect the laser diode against electrostatics breakdown. Be sure to remove the solder from the short point before making connections.





5. Precaution of Laser Diode

CAUTION:

This product utilizes a laser diode with the unit truned “ON”, invisible laser radiation is emitted from the pick up lens. / Wavelength : 780 nm / Maximum output radiation power from pick up : 100 μ W/VDE / Laser radiation from pick up unit is safety level, but be sure the followings:

1. **Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.**
2. **Do not adjust the variable resistor on the pick up unit. It was already adjusted.**
3. **Do not look at the focus lens using optical instruments.**
4. **Recommend not to look at pick up lens for a long time.**

ACHTUNG:

Dieses Produkt enthält eine Laserdiode. Im enigeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt. / Wellenlänge : 780nm / Maximale Strahlungsleistung der Lasereinheit : 100 μ W/VDE / Die Strahlung an der Lasereinheit ist ungefährlich, wenn folgende Punkte beachtet werden:

1. **Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.**
2. **Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.**
3. **Nicht mit optischen Instrumenten in die Fokussierlinse blicken.**
4. **Nicht über längere Zeit in die Fokussierlinse blicken.**

ADVARSEL: I dette a apparat anvendes laser.

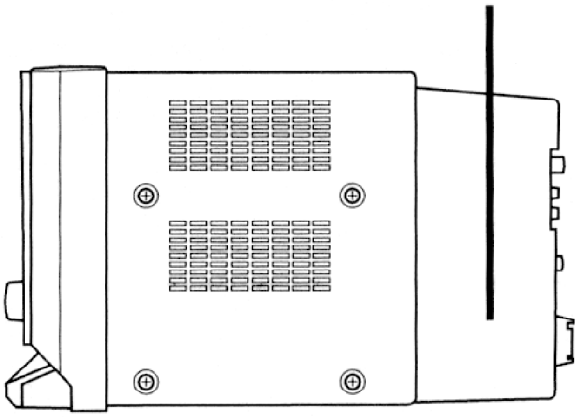
CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THC SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

6. Use of Caution Labels.

CLASS 1
LASER PRODUCT

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT



Right side of the product

DANGER	INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPARREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

Inside of product
Tuotteen sisällä
Produktets innside

7. Caution for AC Mains Lead

(For "EB" area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Blue:	Neutral
Brown:	Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use
Remove the connector cover.

How to replace the fuse
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

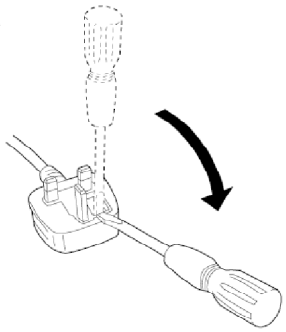
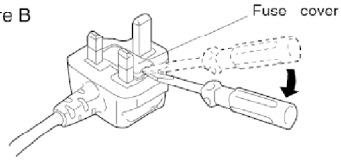


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

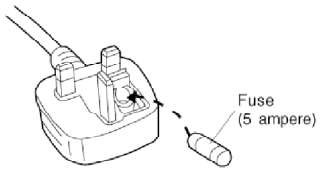
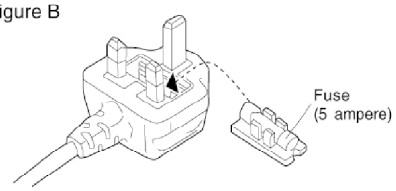
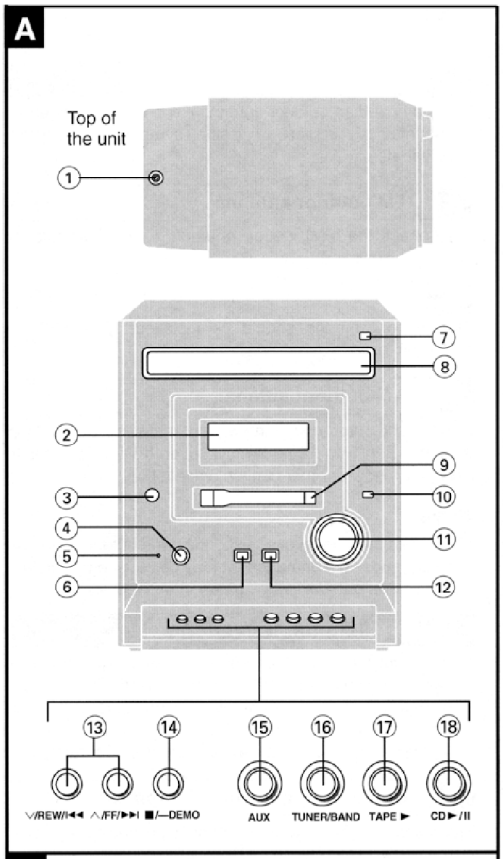
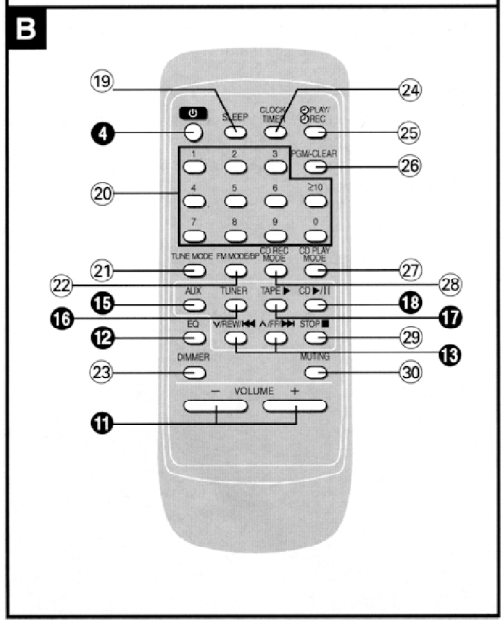


Figure B



8. Front Panel Controls





A Main unit

① **Headphone jack (PHONES)**
② **Display**
③ **Remote control signal sensor**
④ **Standby/on switch** (⏻/I)
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
⑤ **AC supply indicator (AC IN)**
This indicator lights when the unit is connected to the AC mains supply.
⑥ **Recording start/pause button (●REC/II)**
⑦ **CD tray open/close button (OPEN/CLOSE ≜)**
⑧ **CD Tray**
⑨ **Cassette slot**
⑩ **Cassette eject button (EJECT ≜)**
⑪ **Volume control (VOLUME DOWN, UP)**
⑫ **Preset EQ select button (PRESET EQ)**
⑬ **CD skip/search, tape fast-forward/rewind, tune/ preset channel select, time adjust buttons (∨/REW/I◄◄, ∧/FF/►►I)**
⑭ **Stop, demonstration, TAPE/CD mode select button (■/–DEMO)**
⑮ **Aux button (AUX)**
⑯ **Tuner/band select button (TUNER/BAND)**
⑰ **Cassette play button (TAPE ►)**
⑱ **CD play/pause button (CD ►/II)**

B Remote Control

Buttons such as ❹ function in exactly same way as the buttons on the main unit.
⑲ **Sleep timer button (SLEEP)**
⑳ **Numeric buttons**
㉑ **Tuning mode select button (TUNE MODE)**
㉒ **FM mode BP button (FM MODE/BP)**
㉓ **Dimmer button (DIMMER)**
㉔ **Clock/timer button (CLOCK/TIMER)**
㉕ **Play timer/recording timer button (⏲PLAY/⏲REC)**
㉖ **CD Program/clear, tuner preset button (PGM/–CLEAR)**
㉗ **CD Play mode select button (CD PLAY MODE)**
㉘ **CD recording mode button (CD REC MODE)**
㉙ **Stop, TAPE/CD mode select button (STOP ■)**
㉚ **Muting button (MUTING)**

9. Operation Checks and Main Component Replacement Procedures.

“ATTENTION SERVICER”
Some chassis components maybe have sharp edges. Be careful when diassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. / Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer the Parts No. on the page of “Main component Replacement Procedures”, if necessary.

Content

- Checking Procedure for each major P.C.B.
  1. Checking for the Main/Tuner P.C.B..... ..... P.g. 10
  2. Checking for the Panel, Transformer, Power, Speaker & CD Open P.C.B ..... P.g. 11
  3. Checking for the Headphone & Switch P.C.B ..... P.g. 12
- Main Component Replacement Procedures
  1. Replacement of the Traverse Deck P.g.13
  2. Installation of the CD Servo P.C.B. after Replacement P.g.14

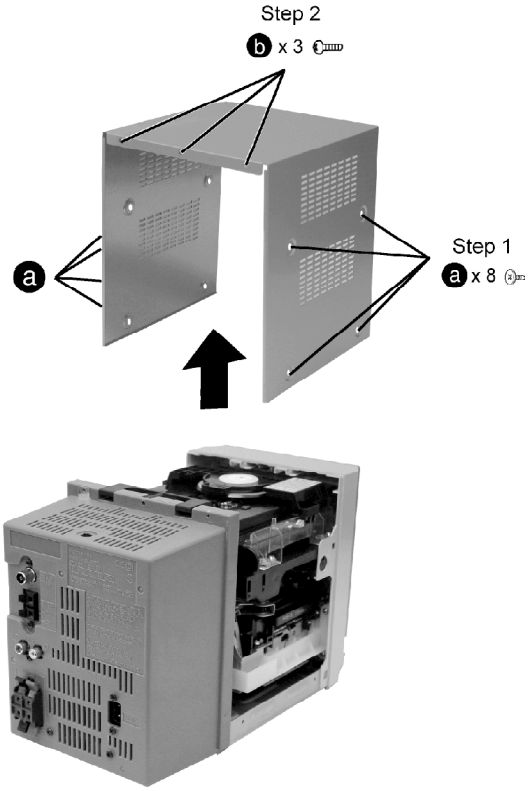
Warning:

This product uses a laser diode. Refer to .

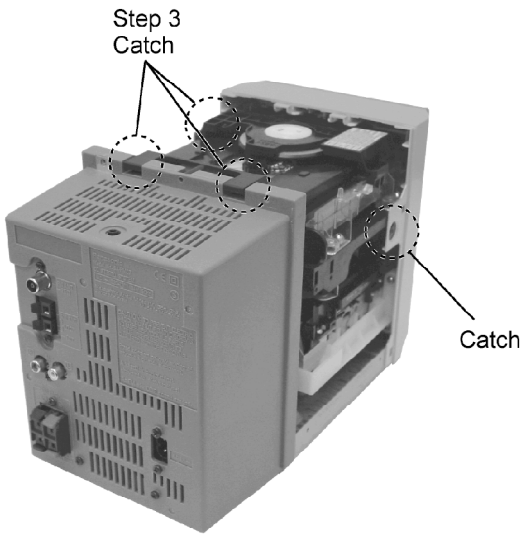
ACHTUNG:

Die Lasereinheit nicht zerlegen. / Die Lasereinheit darf nur gegen eine vom Hertsteller spezifizierte Einheit ausgetauscht werden.

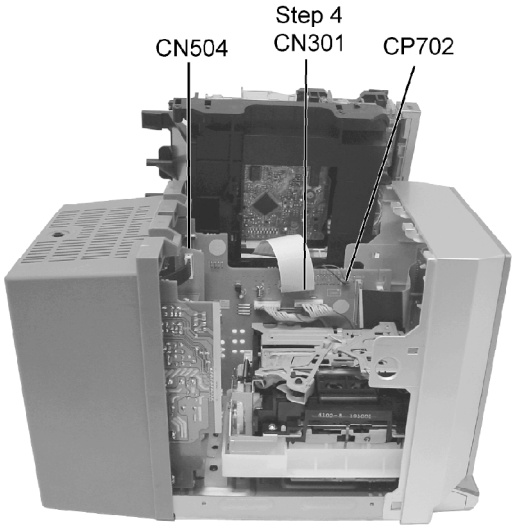
9.1. Checking Procedure for each major P.C.B.



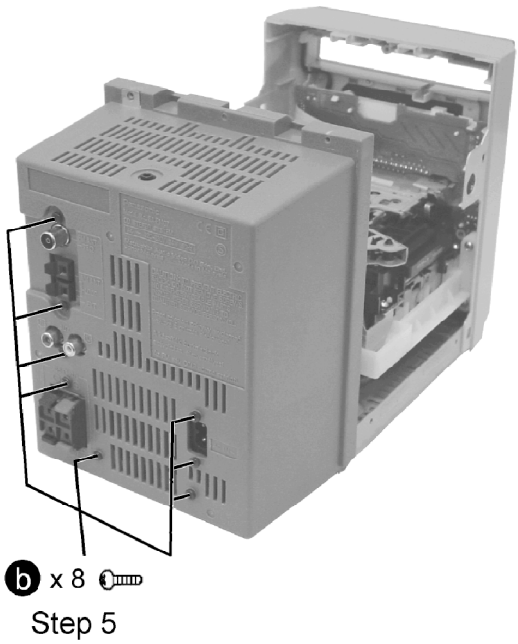
Step 1 & 2 Remove all the screws.



Step 3 Release all the catches.

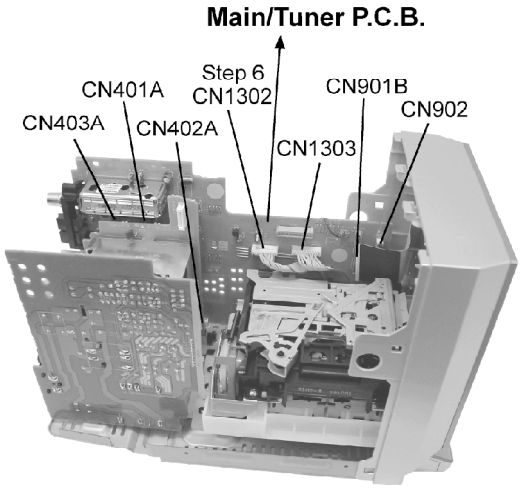


Step 4 Release the connectors CP301, CN504 and CP702. Remove the CD changer.

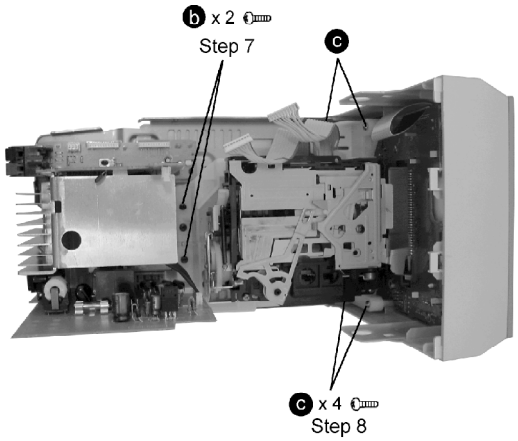


Step 5 Remove all the screws.

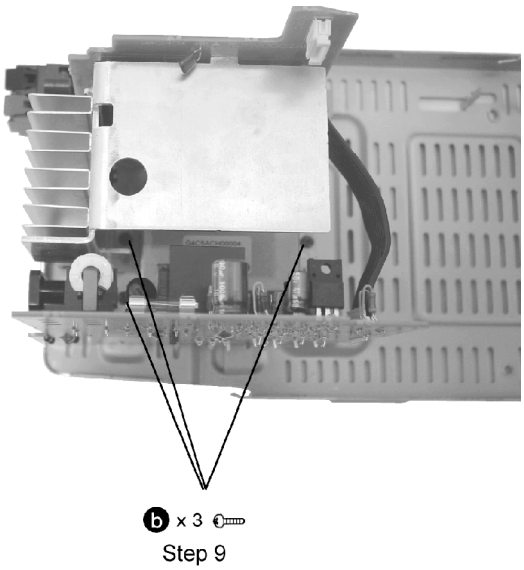
9.1.1. Checking for the Main/Tuner P.C.B



Step 6 Reconnect back all the connectors CN401A, CN402A, CN403A, CN901B, CN902, CN1302 and CN1303 and check the Main/Tuner P.C.B.

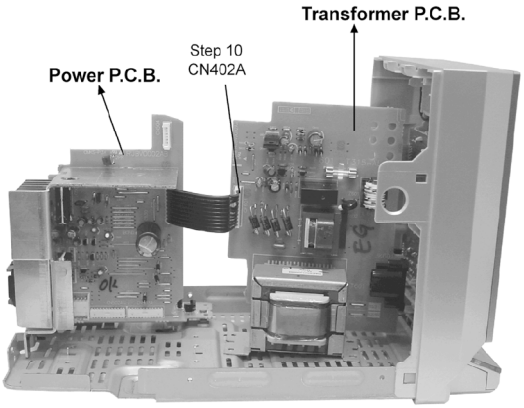


Step 7 & 8 Remove all the screws. Remove the Deck Mechanism.

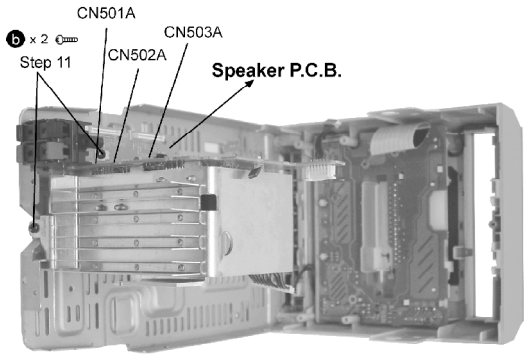


Step 9 Remove all the screws.

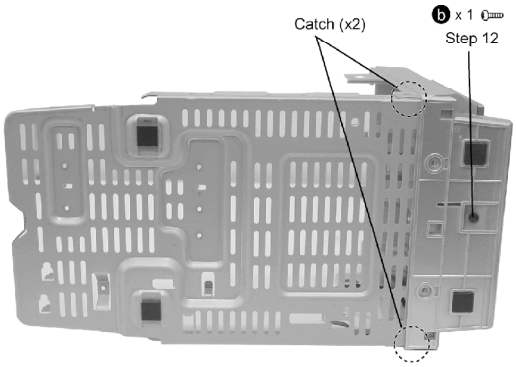
9.1.2. Checking for the Panel, Transformer, Power, Speaker and CD Open P.C.B



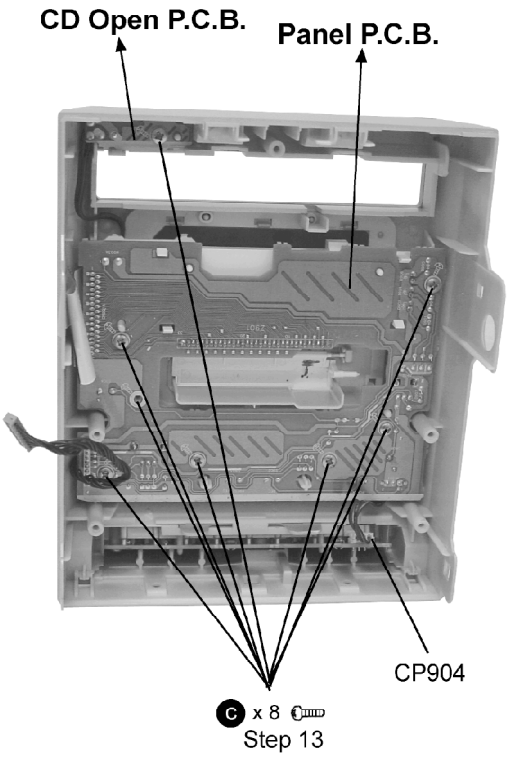
Step 10 Reconnect back all the connectors CN402A.



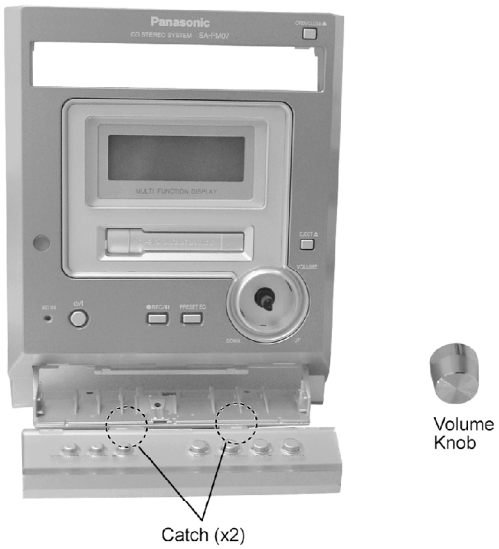
Step 11 Reconnect back all the connectors CN501A, CN502A, CN503A and remove all the screws.



Step 12 Release all the catch and remove all the screws.

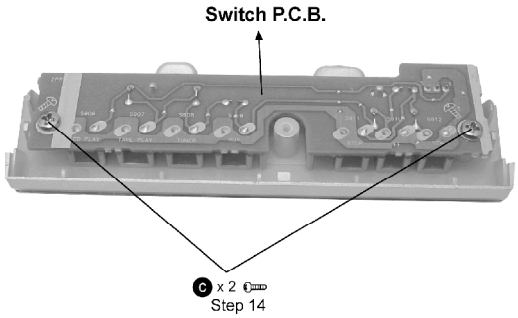


Step 13 Reconnect back all the connectors CP904, remove all the screws.

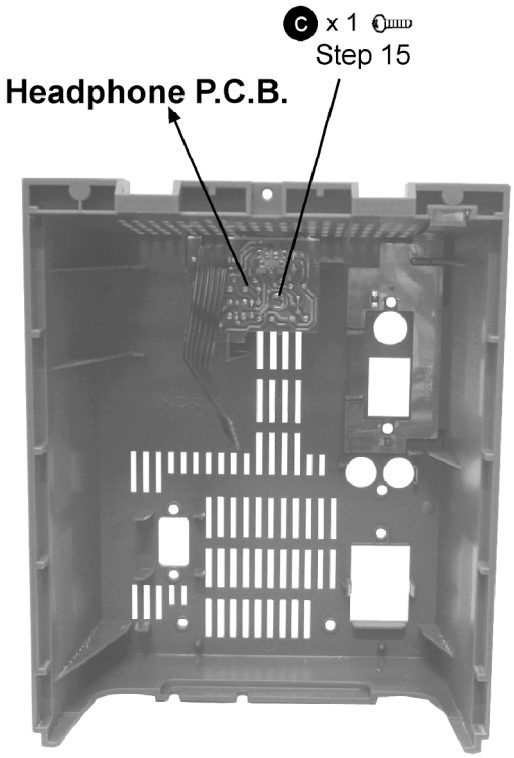


Release all the catch and remove the Volume Knob.

9.1.3. Checking for the Headphone and Switch P.C.B



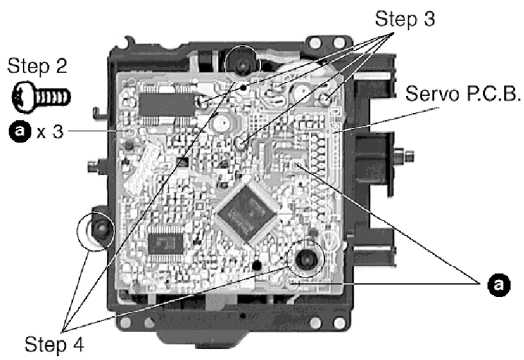
Step 14 Remove all the screws.



Step 15 Remove the screw.

9.2. Main Component Replacement Procedures

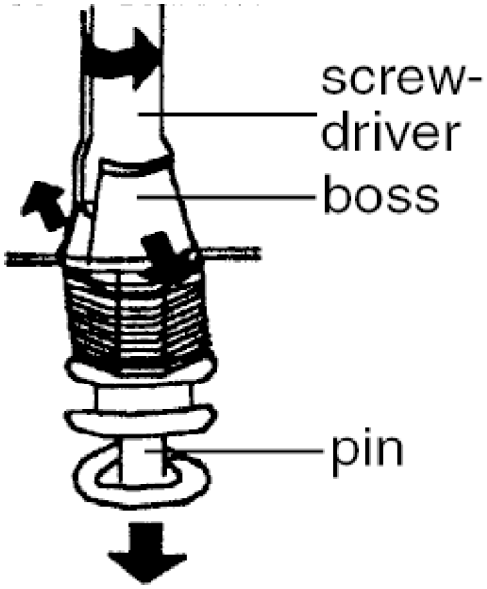
9.2.1. Replacement of the Traverse Deck



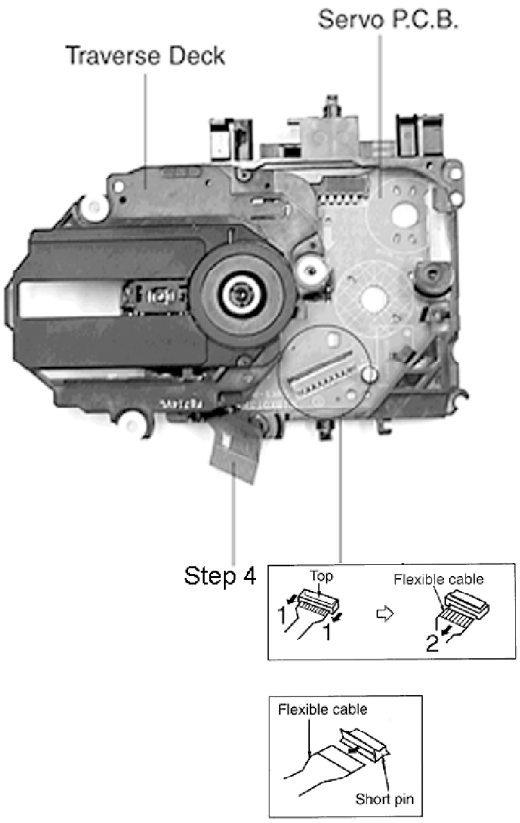
Step 2: Desolder the 4 legs of the 2 motors and pull out the Servo P.C.B.

Step 3: Widen the 3 bosses with a flat screwdriver and pull out the 3 pins. Then remove the

Traverse Deck.



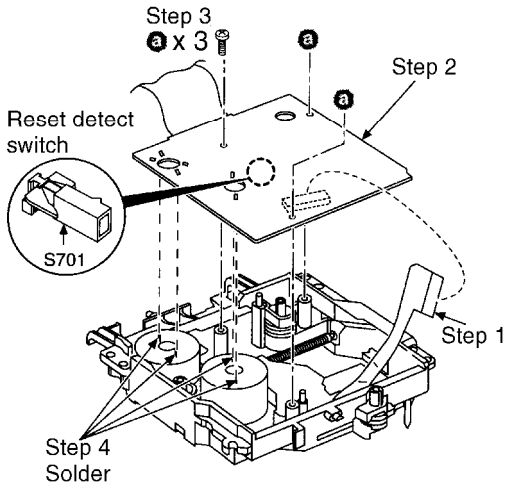
Note :
Insert a short pin into the flexible cable for traverse unit.



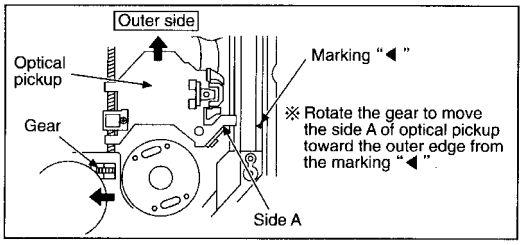
Step 4: Remove the flexible cable CN701.

- Removal of the flexible cable. Push the top of the connector in the direction of the arrow 1, and the pull out the flexible cable in the direction of the arrow 2.

9.2.2. Installation of the CD Servo P.C.B. after Replacement



Step 1 Connect the FFC board.
Step 2 Install the CD servo P.C.B. in the traverse deck assembly.


Outer side
Optical pickup
Marking "◀"
※ Rotate the gear to move the side A of optical pickup toward the outer edge from the marking "◀"
Gear
Side A

Note :
Before installing the CD servo P.C.B., move the optical pickup towards the outer edge from the marking (black triangle).
[Otherwise, the detect switch (S701) mounted on the CD servo P.C.B. may be damaged.]

10. Self Diagnostic Function

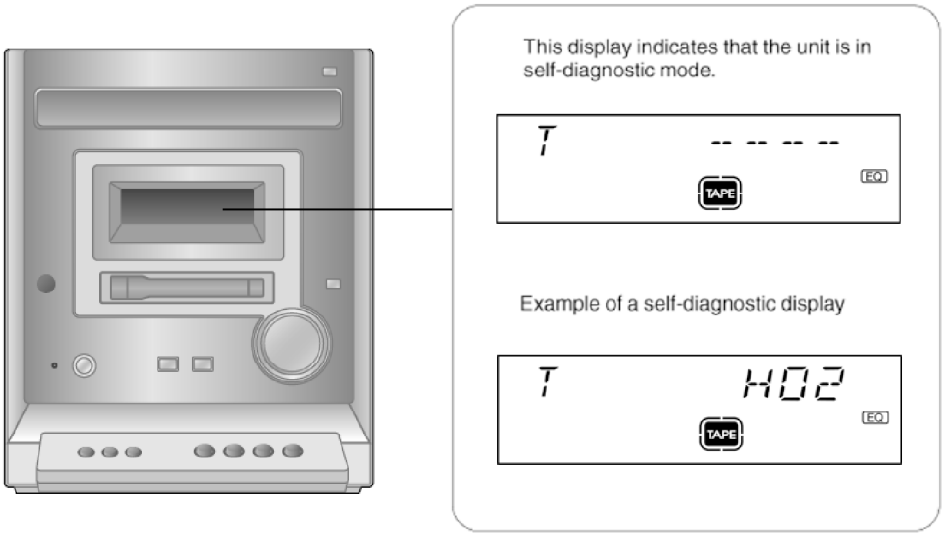
10.1. Setting of self diagnosis Function

10.1.1. Setting of self diagnosis mode /

1. Remove the cassette from the deck.

2. Switch to CD function.

3. Press the STOP ■ key of the main set for more than 2 seconds. While pressing this key, press the FF key on the main set for another 2 seconds to enter into the Self-Diagnosis mode.
***Even if STOP / FUNCTION key of the main set is pressed while the Self Diagnosis mode is on, function shall not be switched. Instead, confirmation of error numbers shall begin. /**



10.1.2. Setting of cassette mechanism self diagnosis mode /

1. **Activate the Self Diagnosis mode for the Deck and the following Self Diagnosis shall be couducted.**
   A. H02 : REC INH SW abnormal
   B. H03 : HALF SW abnormal
   C. H04 : LOAD SW abnormal
   D. F01 : Reel pulse abnormal

   - H01 : If MODE SW abnormal is detected during normal operation, it shall be memorized. The detection and memory shall be done for Deck.
2. **Activate the Self Diagnosis mode with the Deck unloaded.**
3. **The test mode display ([T] at the 1st digit, meaning TEST) shall be made and detection shall be executed to check RECINH SW, HALFSW are in OFF state.**
4. **Slot a cassette tape (with recording preventive tab present) into the deck and push the cassette into the deck (LOADING Operation should be observed).**
5. **After this instant with the cassette loaded in, RECINH SW, HALF SW shall be checked and confirmed at this stage by the software. Press FF key to proceed the self-diagnosis. The FF operation shall stop automatically after 3 sec. If abnormal operation is detected, the tape shall stop automatically after 1 seconds. During the FF**

operation, the Reel Pulse shall be checked by the software.

6. **After the tape stop, the Error codes shall be displayed by toggling the STOP key.**

- In Self Diagnosis mode, the operations which are normally conducted by the cassette mechanism basic operation keys shall not be executed. Those keys are used only to comfirm a diagnosis results. The keys used for other functions shall be valid, unless there are some reason to make them invalid.

- As HALF SW solder point and RECINH SW solder point are located close to each other, it's necessary to check the shorting between the adjacent points. For this purpose, operation has to be executed twice using two kind of cassettes, i.e. a cassette with recording preventive tabs for both Sides A/B and a cassette with a recording preventive tab for only either one side of Sides A/B.

10.1.3. Setting of CD mechanism self diagnosis mode /

F15 : CD REST SW abnormal.
At initial setting of CD traverse position, if REST SW ON is not detected even though the fail safe timer time is over (10 sec), this is memorized as an error and the error number can be cleared only at the start up of micro-p after reset.

H15 : CD OPEN SW abnormal.
During normal operation, if CD OPEN SW ON is not detected within 4 sec, then H15 shall be memorized in memory. The error code can be cleared only at the start up of micro-p after reset.

H01 : Deck operation abnormal (reel motor, solenoid and mode SW)
During normal operation, if mechanism error process is executed once by mode switch against the same deck operation, it is judged as mechanism abnormality and this is memorized as an error.
Conditions for judging mechanism error :

1. **Mode switch ON is not detected 800 ms after plunger activation for PLAY/REC process.**
2. **Mode switch ON in not detected 800 ms after plunger activation for FF/REW process. Or, Mode switch OFF in not detected 800 ms after plunger activation after detecting Mode SW ON. Or, Mode**

switch ON is not detected 800 ms after detecting Mode switch OFF.

3. **If Mode switch comes ON at STOP/PAUSE state (normal condition), this is judge as Error :-**
   - **A. Main purpose for this Self Diagnosis is to diagnose a partial short of a deck.**
   - **B. Mechanical error process caused by EJECT operation shall not be counted.**
   - **C. This error number can be cleared only at the start up of micro-p reset.**

F26 : Communication between CD servo LSI and micro-p abnormal

At the time of switching to CD function, SENSE = H shall be detected using DTMS system setting command. If the error is memorized when SENSE = L is not detected within fail safe timer time (20 msec), [F26] shall be displayed simultaneously. This display shall be retained if the power is ON and at CD function. If this error occurs, CD operation afterward shall not be executed as in the case of [NO DISC].
This error number can be cleared only at the start up of micro-p reset.

10.1.4. Confirmation of self diagnosis result /

1. **At the Self Diagnosis mode, error number shall be displayed every time STOP/FUNCTION key is pressed.**
   Example:[T H 03] (the display shall be retained)
2. **To come out from the Self Diagnosis mode, execute power OFF.**
3. **Even at power OFF operation, this error numbers shall not be cleared (the number can be cleared only at the start up of micro-p reset).**
4. **If repeating Self Diagnosis, add the newly detected errors only without deleting errors which has been detected before**

11. Description of Error Code

11.1. Error detection for Cassette Mechanism block

No.	Error	Error Display	Problem condition
1	Deck operation abnormal (MODE SW)	H01	Refer to 10.1.2
2	RECINH SW abnormal	H02	Refer to 10.1.2
3	HALF SW abnormal	H03	Refer to 10.1.2
4	LOAD SW abnormal	H04	Refer to 10.1.2
5	Reel pulse abnormal	F01	Refer to 10.1.2

11.2. Error detection for CD Mechanism block

No.	Error	Error Display	Problem condition
1	CD REST SW abnormal	F15	Refer to 10.1.3
2	Communication between CD servol LSI and Micon abnormal	F26	Refer to 10.1.3
3	CD OPEN SW abnormal	H15	Refer to 10.1.3

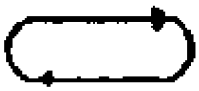
11.3. Power Supply related error detection

No.	Error	Error Display	Problem condition
1	Power supply cut	F76	

12. Measurements and Adjustments

12.1. Cassette Deck Section

- Measurement Condition

- Reverse-mode selector switch: 

- Tape edit: NORMAL

- Record timer: OFF

- Make sure head, capstan and press roller are clean.

- Judgeable room temperature 20 ± 5 °C (68 ± 9°F)

- Measuring instrument

- EVM (Electronic Volmeter)

- Digital quency counter

- Test Tape

- Head azimuth adjustment (8 kHz, -20 dB); QZZCFM
- Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT
- Playback gain adjustment (315 Hz, 0 dB); QZZCFM
- CrO2 tape, QZZCRX

12.1.1. Head Azimuth Adjustment

Note :

If you wish to readjust the head azimuth, be sure to adjust with adhering the casette tape closely to the mechanism by pushing the cebter of cassette tape with your finger. (Shown in Fig. 1)

1. Connect the measuring instrument as shown in Fig. 2.
2. Replace azimuth screws for both forward and reverse direction after removing the screw-locking bond left on the head base.
3. Playback the azimuth adjustment portion(8kHz, -20dB) of test tape(QZZCFM). Adjust the azimuth adjusting screw until the outputs of the L/Rch are maximized. (Refer to Fig. 3)
   Make sure that the difference in the peak level between the left and right channels does not exceed 5dB.
4. Perform the same adjustment in reverse playback mode.
   Check of the level difference forward and reverse directions
5. Playback the playback gain adjustment portion(315Hz, 0dB) of test tape(QZZCFM). Check if level difference between forward and reverse direction is within 1.5dB.
6. After the adjustment, apply screwlock to the azimuth adjusting screw.

Fig. 1

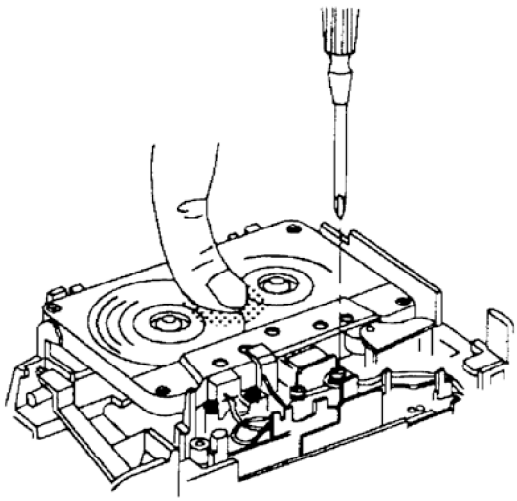


Fig. 2

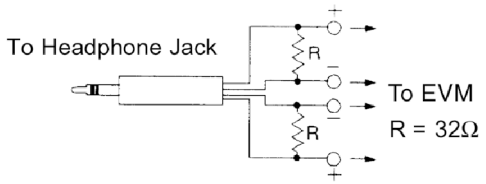
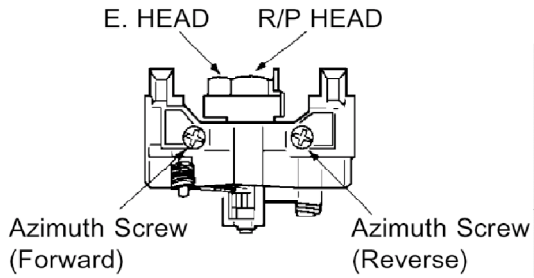


Fig. 3

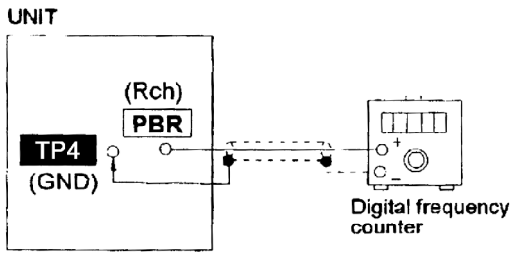


12.1.2. Tape Speed Adjustment (Deck 1/2)

1. **Set the tape edit button to "NORMAL" position.**
2. **Insert the test tape (QZZCWAT) to DECK and playback (FWD side) the middle portion of it.**
3. **Adjust Motor VR for the output value shown below.**

Adjustment target: 2960 ~ 3040 Hz (NORMAL speed)

4. **After alignment, assure that the output frequency of the DECK REV is within ±60 Hz respectively of the value of the output frequency of DECK FWD.**

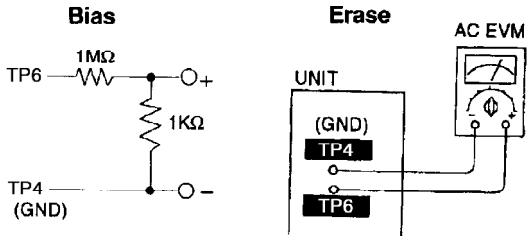


12.1.3. Bias and Erase Voltage Check

1. **Set the unit "AUX" position.**
2. **Insert the Normal blank tape (QZZCRA) into DECK and the unit to "REC" mode (use " ● REC/PAUSE" key).**
3. **Measure and make sure that the output is within the standard value.**

4. Repeat steps 2 and 3.

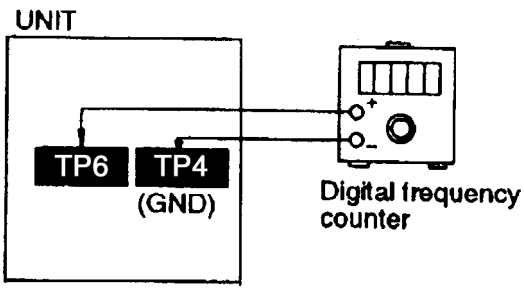
Bias voltage **16 ± 3mV (Normal)**



12.1.4. Bias Frequency Adjustment

1. Set the unit to “AUX” position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to “REC” mode (● use “REC/PAUSE” key).
3. Adjust L1301 so that the output frequency is within the standard value.

Standard Value: 98 ±8 kHz



12.2. Tuner Section

12.2.1. AM-IF Alignment

- AM-IF ALIGNMENT

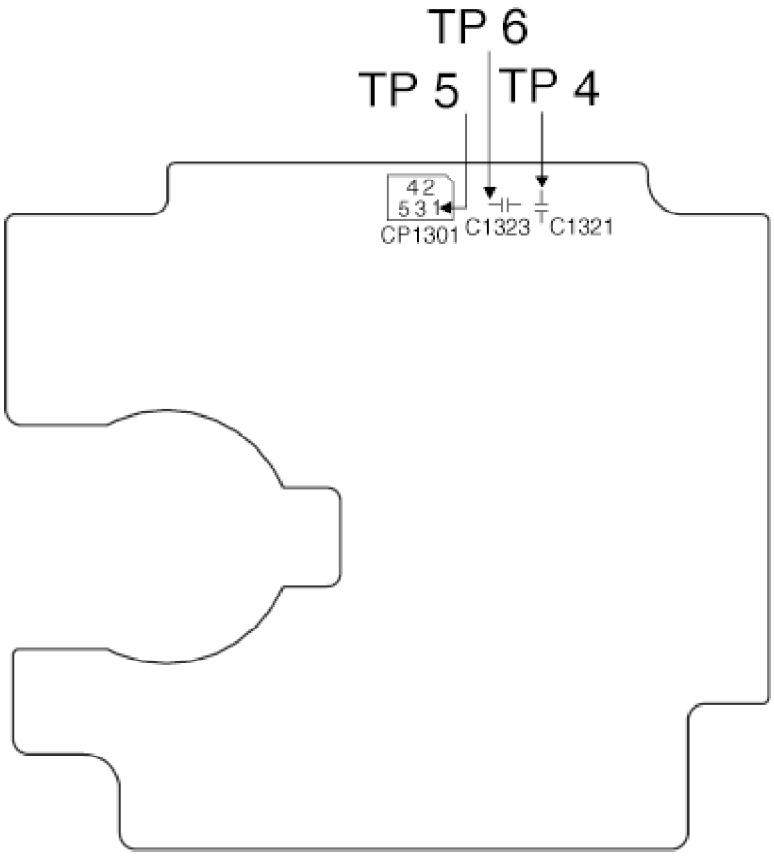
SIGNAL GENERATOR OR SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE)	ADJUSTMENT(Shown in Fig.3)	RE
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	450 kHz	Point of non-interference (on/ about 600 kHz)	Headphone Jack (32 Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z102 (AM IFT)	Adjus maxi outpu

- AM-RF ALIGNMENT

SIGNAL GENERATOR OR SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE)	ADJUSTMENT(Shown in Fig.1)	RE
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	522 kHz	Tuning capacitor fully closed.	Headphone Jack (32 Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z101 (AM OSC Coil)	Adjus maxi outpu
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	603 kHz	Tuning capacitor fully open.	Headphone Jack (32 Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z101 (AM ANT Coil)	Adjus maxi outpu

12.3. Alignment Points

Cassette Deck Section



Tuner Section

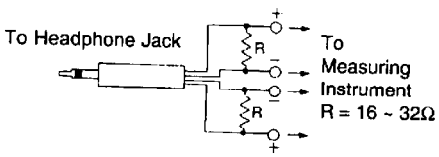


Fig. 2

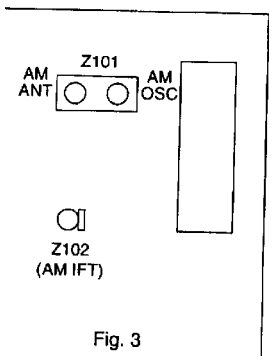


Fig. 3

13. Block Diagram

14. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of new technology.)
Notes:

S701	RESET Switch
S780	OPEN Switch
S901	POWER Switch
S902	REC Switch
S903	PRESET EQ Switch
S904	EJECT Switch
S905	CD OPEN/CLOSE Switch
S906	CD PLAY Switch
S907	TAPE PLAY Switch
S908	TUNER Switch
S909	AUX Switch
S910	FF Switch
S911	STOP Switch
S912	REW Switch
S951	MODE Switch
S952	LEAF Switch
S953	LEAF Switch
S954	LEAF Switch
S1301	DECK MODE Switch

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

No mark	...Playback	< >	...FM
(( ))	...CD	( )	...AM

- Importance safety notice:

Components identifed by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution!

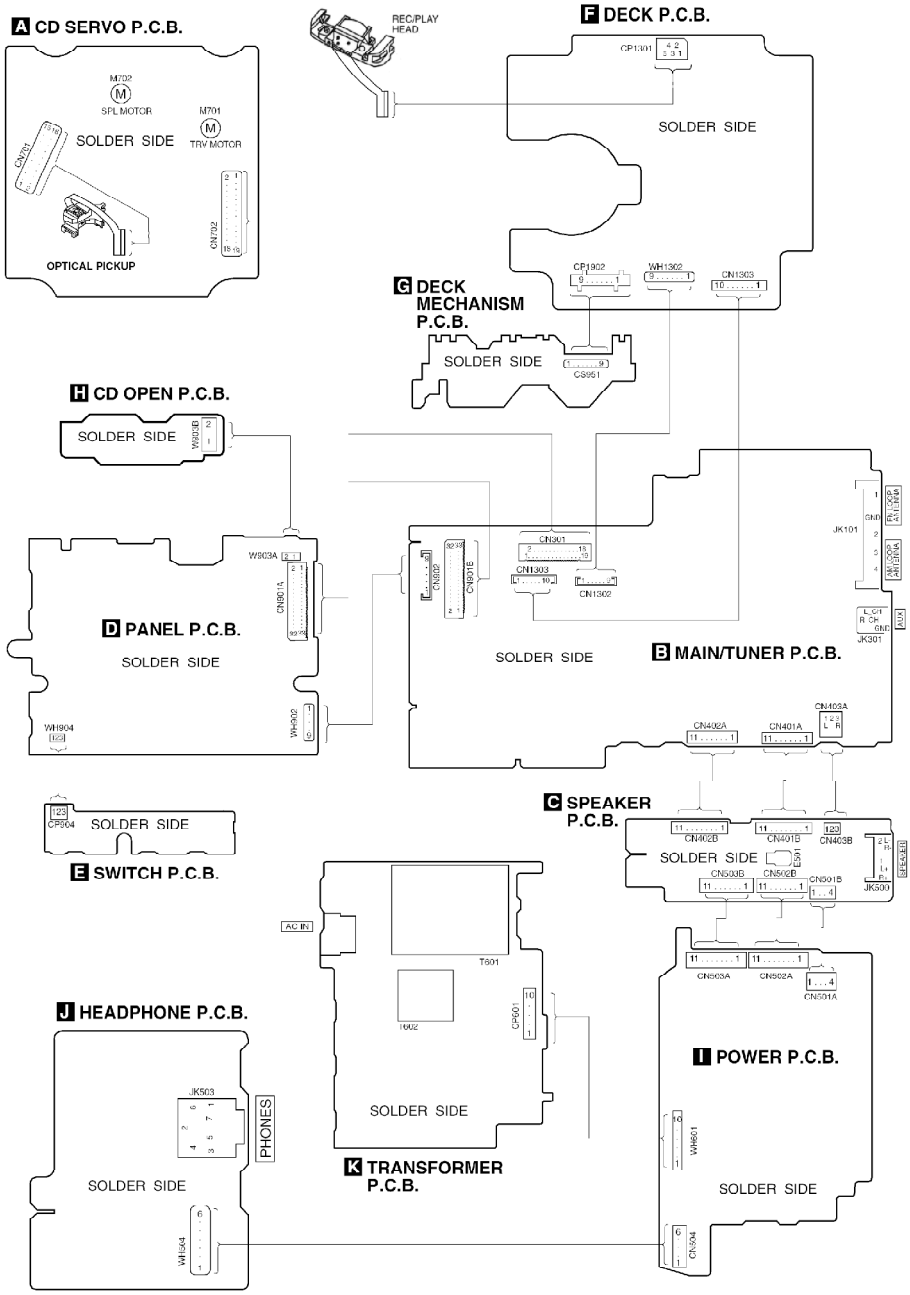
IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.

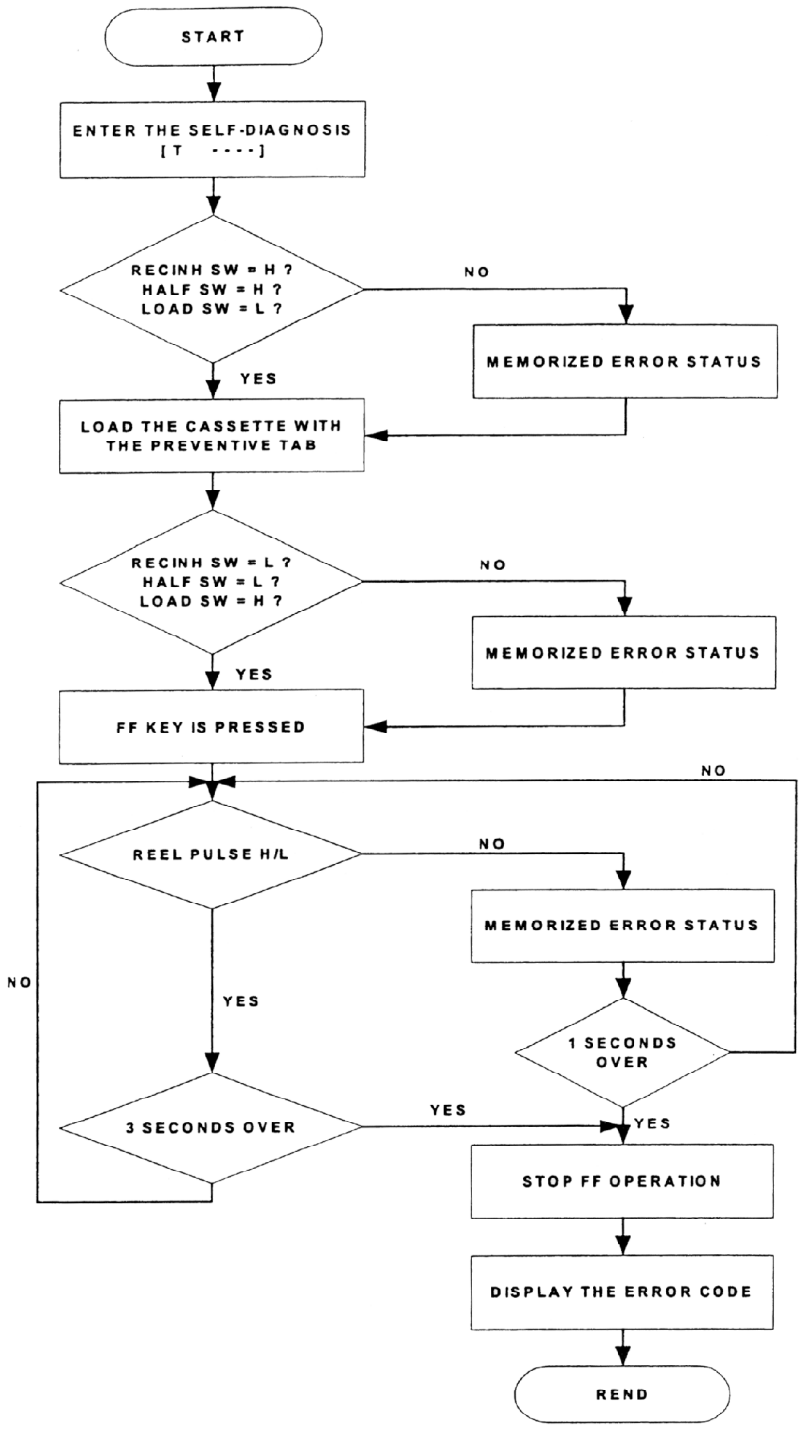
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

15. Printed Circuit Board

16. Wiring Connection Diagram



17. Troubleshooting Guide



18. Type Illustrations of ICs, Transistors & Diodes

19. Terminal Function of IC's

19.1. IC701 (AN8885SBE1) Servo Amplifier

Pin No.	Mark	I/O	Function
1	PDE	I	Tracking signal input 1
2	PDF	I	Tracking signal input 2
3	VCC	I	Power supply
4	PDA	I	Focus signal input terminal 1
5	PDB	I	Focus signal input terminal 2
6	LPD	I	APC amp input
7	LD	O	APC amp output
8	RF	O	RFsumming output
9	RFIN	I	Detector's input
10	CSBRT	I	Capacitor for OFTR connection
11	CEA	I	Capacitor for HPF amp connection
12	BDO	O	BDO output ("H" : drop out)
13	LDON	I	APC control
14	GND	—	Ground
15	/RFDET	O	NRFDET output ("L" : detection)
16	PDOWN	O	Power-down input
17	OFTR	O	OFTR output
18	NC	O	N.C.
19	ENV	O	3T-ENV output
20	NC	I	N.C.
21	NC	I	N.C.
22	TEN	I	TE amp input
23	TEOUT	O	TE amp output
24	FEOUT	O	FE amp output
25	FEN	I	FE amp input
26	VREF	O	Reference voltage output
27	TBAL	I	Tracking balance control
28	FBAL	I	Focus balance control

19.2. IC702 (MN662790RSC) Servo processor/ Digital signal processor/ Digital filter/ D/A converter

No.	Mark	I/O	Function
1	BCLK	O	N.C.
2	LRCK	O	N.C.
3	SRDATA	O	N.C.
4	DVDD1	I	Power supply input (for digital circuit)
5	DVSS1	I	GND (for digital circuit)
6	TX	O	Digital audio interface signal output (Latches data at first transition)
7	MCLK	I	Microprocessor command clock signal input
8	MDATA	I	Microprocessor command data signal input
9	MLD	I	Microprocessor command load signal input
10	SENSE	O	Sense signal output (OFT, FESL, MAGEND, NAJEND, POSAD, SFG) (Not used, open)
11	/FLOCK	O	Focus servo feeding signal output (“L” : Feed)
12	/TLOCK	O	Tracking servo feeding signal output (“L” : Feed)
13	BLKCK	O	Sub-code block clock signal output (BLKCKf = 75Hz during normal playback)
14	SQCK	I	External clock signal input for sub-code Q resistor
15	SUBQ	O	Sub-code Q code output
16	DMUTE	I	Muting input (“H” : mute)
17	STAT	O	Status signal output (CRC, CUE, CLVS, TTSTVP, FCLV, SQCK)

No.	Mark	I/O	Function
18	/RST	I	Reset signal input
19	SMCK	O	1/2-diveded clock signal of crystal osscillating at MSEL = “H” (fSMCK = 8.4672 MHz) 1/4-divided clock signal of crystal oscillating at MSEL = “L” (fSMCK = 4.2336 MHz)
20	CSEL	I	Frequency Selection Terminal H = 33.8688 MHz ; L = 16.9344 MHz
21	TRV	O	N.C
22	TVD	O	Traverse drive output
23	PC	O	Spindle motor ON output ("L" : ON)
24	ECM	O	Spindle motor drive signal output(forced mode output)
25	ECS	O	Spindle motor drive signal output (servo error signal output)
26	KICK	O	N.C.
27	TRD	O	Tracking drive output
28	FOD	O	Focus drive output
29	VREF	I	D/A (drive) output (TVD, ECS, TRD, FOD, FBAL, TBAL) Reference voltage input
30	FBAL	O	Focus balance adjustment output
31	TBAL	O	Tracking balance adjustment output
32	FE	I	Focus error signal input (analog input)
33	TE	I	Tracking error signal input (analog input)
34	RFENV	I	RF envelope signal input
35	VDET	I	Vibration detection signal input ("H" : detection)
36	OFT	I	Off-track signal input ("H" : off track)

No.	Mark	I/O	Function
37	TRCRS	I	Track cross signal input
38	/RFDET	I	RF detection signal input ("L" : detection)
39	BDO	I	Dropout signal input ("H" : Dropout)
40	LDON	O	Laser on signal output ("H" : ON)
41	PLLF2	I/O	N.C.
42	DSLF2	O	Tracking Offset alignment output/DSL Balance Output (DA Output)
43	WVEL	O	N.C.
44	ARF	I	RF signal input
45	IREF	I	Reference current input
46	DRF	I	DSL bias terminal (Not used, open)
47	DSLF	I/O	DSL loop filter terminal
48	PLLF	I/O	PLL loop filter terminal
49	VCOF	I/O	VCO loop filter terminal
50	AVDD2	I	Power supply input (for analog circuit)
51	AVSS2	I	GND (for analog circuit)
52	EFM	-	EFM signal output
53	PCK	-	PLL extraction clock output (fPCK = 4.321 MHz during normal playback)
54	VCOF2	I/O	VCO Loop filter for 33.8688 MHz conversation terminal for 16.9344 MHz crystal mode, must use other circuit
55	SUBC	O	Sub-code serial data output
56	SBCK	I	Clock input for sub-code serial data
57	VSS	I	GND

No.	Mark	I/O	Function
58	X1 IN	I	Crystal oscillating circuit input (f = 16.9344MHz)
59	X2 OUT	O	Crystal oscillating circuit input (f = 16.9344 MHz)
60	VDD	I	Power supply input (for oscillating circuit)
61	BYTCK	-	Byte clock output
62	/CLDCK	-	Sub-code frame clock signal output (fCLDCK = 7.35 kHz during normal playback)
63	FCLK	-	Crystal frame clock signal output (fCLK = 7.35 kHz, double = 14.7 kHz)
64	IPFLAG	-	Interpolation flag output (“H” : Interpolation)
65	FLAG	-	Flag output
66	CLVS	-	Spindle servo phase synchronizing signal output ("H" : CLV, "L" : rough servo)
67	CRC	-	Sub-code CRC checked output (“H’ : OK, “L” :NG)
68	DEMPH	-	De-emphassis ON signal output (“H” : ON)
69	RESY	-	Frame re-synchronizing signal output
70	IOSEL	I	Mode Switching Terminal
71	/TEST	I	Test input
72	AVDD1	I	Power supply input (for analog circuit)
73	OUTL	O	Left channel audio signal output
74	AVSS1	I	GND
75	OUTR	O	Right channel audio signal output

No.	Mark	I/O	Function
76	RSEL	I	RF signal polarity assignment input (at "H" level, RSEL="H", at "L" level, RESL= "L")
77	IOVOD	I	5V supply input
78	PSEL	I	Test terminal (connected to Gnd)
79	MSEL	I	SMCK oscillating frequency designation input (“L” :4.2336 MHz, “H”: 8.4672 MHz)
80	SSEL	I	SUBQ output mode select (“H”:Q-code buffer mode)

19.3. IC703 (BA5948FPE2) Focus coil/ Tracking coil/ Traverse motor/ Spindle motor driver

No.	Mark	I/O	Function
1	/RST	-	RESET output terminal
2	NC	-	N.C.
3	IN2	I	Motor Drive (2) input
4	PC2	I	Turntable motor drive signal (“L :ON)
5	NC	-	N.C.
6	IN1	I	Motor driver (1) input
7	NC	I	N.C.
8	PVCC1	I	Power supply (1) for driver
9	PGND1	-	Ground connection (1) for driver
10	NC	-	N.C.
11	D1-	O	Motor driver (1) reverse-action output
12	D1+	O	Motor driver (1) forward-action output
13	D2-	O	Motor driver (2) reverse-action output
14	D2+	O	Motor driver (2) forward-action output
15	D3-	O	Motor driver (3) reverse-action output
16	D3+	O	Motor driver (3) forward-action output

No.	Mark	I/O	Function
17	D4-	O	Motor driver (4) reverse-action output
18	D4+	O	Motor driver (4) forward-action output
19	NC	-	N.C.
20	PGND2	-	Ground connection (2) for driver
21	PVCC2	I	Power supply (2) for driver
22	NC	-	N.C.
23	VCC	I	Power supply terminal
24	VREF	I	Reference voltage input
25	IN4	I	Motor driver (4) input
26	IN3	I	Motor driver (3) input
27	RSTIN	I	Reset terminal
28	NC	-	N.C.

19.4. IC801 (MN101C38CRE1) System Microprocessor

Pin No.	Mark	I/O	Function
1	COM3	O	LCD COMMON OUTPUT
2	COM2	O	LCD COMMON OUTPUT
3	COM1	O	LCD COMMON OUTPUT
4	COM0	O	LCD COMMON OUTPUT
5	VLC3	—	LCD BIAS
6	VLC2	—	LCD BIAS
7	VLC1	—	LCD BIAS
8	VDD	—	VDD+5V
9	OSC2	O	6.0MHz CERAMIC OSC OUTPUT
10	OSC1	I	6.0MHz CERAMIC OSC INPUT
11	VSS	—	GROUND
12	XI	I	32.768KHz OSC INPUT
13	XO	O	32.768KHz OSC OUTPUT
14	MMOD	I	MICROPROCESSOR MODE SET TO “L”
15	VREF-	—	ANALOG REFERENCE GROUND
16	KEY1	A/D	KEY INPUT1
17	KEY2	A/D	KEY INPUT2
18	VOL_JOG1	I	VOLUME JOG INPUT1
19	VOL_JOG2	I	VOLUME JOG INPUT2

Pin No.	Mark	I/O	Function
20	AN4(LOAD SW, MODE)	I	LOAD SWITCH & MODE SWITCH
21	OP_SW	I	OPEN SWITCH
22	PDET	A/D	POWER SUPPLY VOLTAGE DETECT
23	ADL_IN	A/D	DECK MECHANISM CONDITION INPUT
24	VREF+	—	+5V REFERENCE FOR A/D
25	NC	O	NO CONNECTION
26	SUBQ	I	CD SUBCODE DATA INPUT
27	SQCK	O	CD SUBCODE DATA CLOCK
28	MBP1	O	MICRO-P BEAT PROOF CONTROL OUTPUT 1
29	MBP2	O	MICRO-P BEAT PROOF CONTROL OUTPUT 2
30	CD_RESET	O	CD RST OUTPUT
31	RESET_SW	I	CD LIMIT SW INPUT FOR THE MOST INNER POIN
32	/RESET	I	SYSTEM RESET INPUT
33	CD_OPEN	O	CD OPEN OUTPUT
34	CD_CLOSE	O	CD CLOSE OUTPUT
35	MLD	O	CD SIGNAL PROCESSOR CONTROL LOAD OUTPUT
36	MDATA	O	CD SIGNAL PROCESSOR CONTROL DATA OUTPUT
37	MCLK	O	CD SIGNAL PROCESSOR CONTROL CLOCK OUTPUT
38	BLKCK	I	CD SUBCODE BLOCK CLOCK INPUT
39	RMT_IN	I	REMOTE CONTROL INPUT
40	HALT	I	AC FAILURE DETECT SIGNAL
41	STAT	I	CD STATUS INPUT
42	UNUSED	I	CONNECT TO GROUND (GND)
43	SP_CLK	O	SOUND PROCESSOR SERIAL CLOCK (SP_CLK)
44	SP_DAT	O	SOUND PROCESSOR SERIAL DATA (SP_DAT)
45	DIMMER	O	DIMMER FOR LCD
46	PCNT	O	POWER CONTROL OUTPUT
47	MOTORH	O	DECK MOTOR OUTPUT AUDIO MUTE OUTPUT
48	PL	O	DECK PLUNGER

Pin No.	Mark	I/O	Function
49	RECH	O	DECK REC CONTROL OUTPUT
50	MUTEA	O	AUDIO MUTE OUTPUT
51	SD	I/O	TUNER SIGNAL DETECT INPUT
52	DMT	O	TAPE MUTE OUTPUT
53	BP	O	BEAT PROOF FOR AM
54	UNUSED	I	CONNECT TO GROUND (GND)
55	UNUSED	I	CONNECT TO GROUND (GND)
56	CR_TIMER	I/O	TIMER TO MEASURE HOW LONG THE SET HAS BEEN UNPLUG FROM THE MAIN
57	PHOTO_1	I	DECK PHOTO SW INPUT
58	PLL_CLK	O	PLL CLOCK OUTPUT
59	PLL_CE	O	PLL CHIP ENABLE OUTPUT
60	PLL_DA	O	PLL DATA OUTPUT
61	PLL_DO	I	PLL IF COUNT INPUT
62	T_MUTE	O	TUNER MUTE
63	EDATA	I/O	EEPROM DATA
64	ECLK	O	EEPROM CLOCK
65	ECS	O	EEPROM CHIP SELECT
66	UNUSED	I	CONNECT TO GND
67	REG_1	I	REGION SETTING 1
68	REG_2	I	REGION SETTING 2
69	REG_3	I	REGION SETTING 3
70	REG_4	I	REGION SETTING 4
71	UNUSED	O	OPEN
72	SEG29	O	LCD SEGMENT DRIVE OUTPUT
73	SEG28	O	LCD SEGMENT DRIVE OUTPUT
74	SEG27	O	LCD SEGMENT DRIVE OUTPUT
75	SEG26	O	LCD SEGMENT DRIVE OUTPUT
76	SEG25	O	LCD SEGMENT DRIVE OUTPUT
77	SEG24	O	LCD SEGMENT DRIVE OUTPUT
78	SEG23	O	LCD SEGMENT DRIVE OUTPUT
79	SEG22	O	LCD SEGMENT DRIVE OUTPUT

Pin No.	Mark	I/O	Function
80	SEG21	O	LCD SEGMENT DRIVE OUTPUT
81	SEG20	O	LCD SEGMENT DRIVE OUTPUT
82	SEG19	O	LCD SEGMENT DRIVE OUTPUT
83	SEG18	O	LCD SEGMENT DRIVE OUTPUT
84	SEG17	O	LCD SEGMENT DRIVE OUTPUT
85	SEG16	O	LCD SEGMENT DRIVE OUTPUT
86	SEG15	O	LCD SEGMENT DRIVE OUTPUT
87	SEG14	O	LCD SEGMENT DRIVE OUTPUT
88	SEG13	O	LCD SEGMENT DRIVE OUTPUT
89	SEG12	O	LCD SEGMENT DRIVE OUTPUT
90	SEG11	O	LCD SEGMENT DRIVE OUTPUT
91	SEG10	O	LCD SEGMENT DRIVE OUTPUT
92	SEG9	O	LCD SEGMENT DRIVE OUTPUT
93	SEG8	O	LCD SEGMENT DRIVE OUTPUT
94	SEG7	O	LCD SEGMENT DRIVE OUTPUT
95	SEG6	O	LCD SEGMENT DRIVE OUTPUT
96	SEG5	O	LCD SEGMENT DRIVE OUTPUT
97	SEG4	O	LCD SEGMENT DRIVE OUTPUT
98	SEG3	O	LCD SEGMENT DRIVE OUTPUT
99	SEG2	O	LCD SEGMENT DRIVE OUTPUT
100	SEG1	O	LCD SEGMENT DRIVE OUTPUT

20. Parts Location and Replacement Parts List

Notes:

- Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of these components, be sure to use only manufacturers's specified parts shown in the parts list.

- The parenthesized indications in the Remarks column specify the areas or color. (Refer to the cover page for area or color.)
Parts without these indications can be used for all areas.

- Warning: This product uses a laser diode. Refer to caution statements on
ACHTUNG: / Die Lasereinheit nicht zerlegen. / Die Lasereinheit darf nur gegen enie vom Hertsteller spezifizierte Einheit ausgetauscht werden.

- Capacitor values are in microfarad (μ F) unless specified otherwise, P=Pico-farads(pF); Farads.

- Resistance values are in ohms, unless specified otherwise, 1K= 1,000(ohms).

- The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the lows govening part and product retention. After the end of this period, the assembly will no longer be available.

- [M] indicates in the Remarks columns indicates parts that are supplied by MESA.

- The "(SF)" mark denotes the standard part.

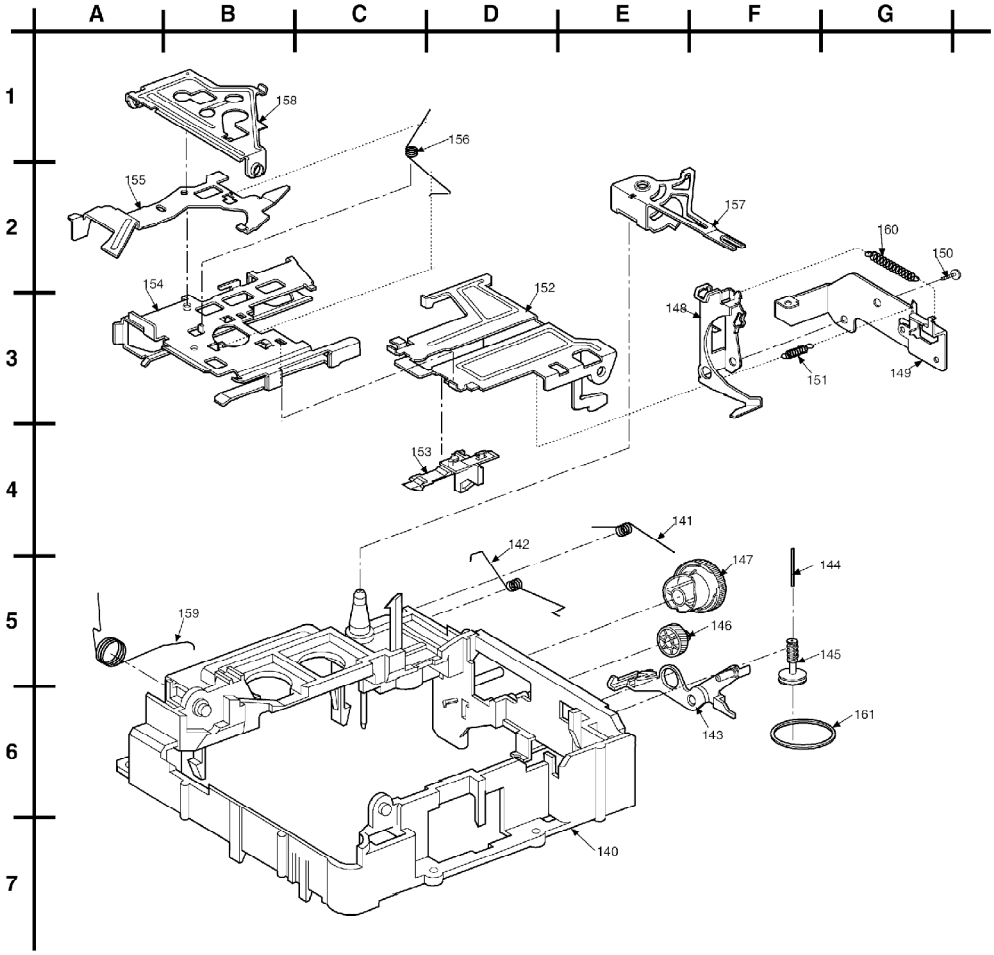
- Remote Control Unit: Supply period for three years from terminal of production.

- Reference for O/I book languages are as follows :

Ar : Arabic	**Cf : Canadian French**	**Cz : Czech**	**Da : Danish**
Du : Dutch	**En : English**	**Fr : French**	**Ge : German**
It : Italian	**Ko : Korean**	**Po : Polish**	**Ru : Russian**
Sp : Spanish	**Sw : Swedish**	**Co : Traditional Chinese**	**Cn : Simplified Chi**

20.1. Deck Mechanism

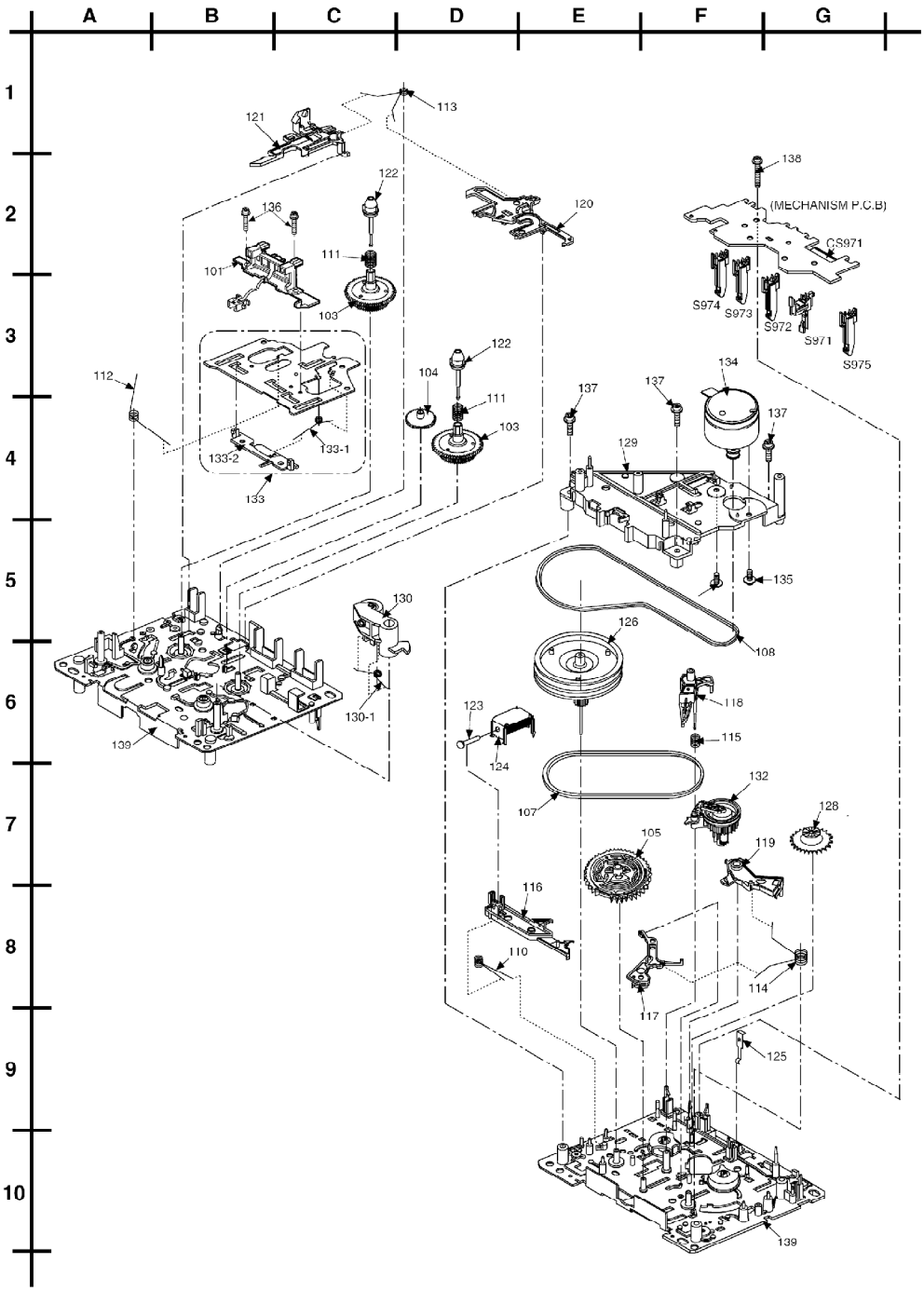
20.1.1. Slot-in Mechanism Parts Location



20.1.2. Slot-in Mechansim Part Lists

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
140	RMK0473	HOUSING	[M]
141	RME0334	TRIGGER SPRING	[M]
142	RME0328	TRIGGER LEVER SPRING	[M]
143	RML0597	TRIGGER LEVER	[M]
144	RMU0083	WORM SHAFT	[M]
145	RDG0507	WORM PULLEY	[M]
146	RDG0508	WORM WHEEL	[M]
147	RDK0036	CAM GEAR	[M]
148	RML0600	DRIVE LEVER	[M]
149	RMA1413	HOLDER PLATE	[M]
150	RHD20048	SCREW	[M]
151	RMB0663	UD. ARM SPRING	[M]
152	RML0599	UD. ARM	[M]
153	RMQ1002	CASSTTE HOOK	[M]
154	RMA1412	CASSTTE HOLDER	[M]
155	RML0598	OPEN LEVER	[M]
156	RME0329	OPEN LEVER SPRING	[M]
157	RML0601	SLIDE LEVER	[M]
158	RMA1420	CT. PUSH PLATE	[M]
159	RME0333	PUSH SPRING	[M]
160	RMB0664	DRIVE LEVER SPRING	[M]
161	RDV0066	BELT	[M]

20.1.3. Deck Mechanism Parts Location (RAA4402-S)

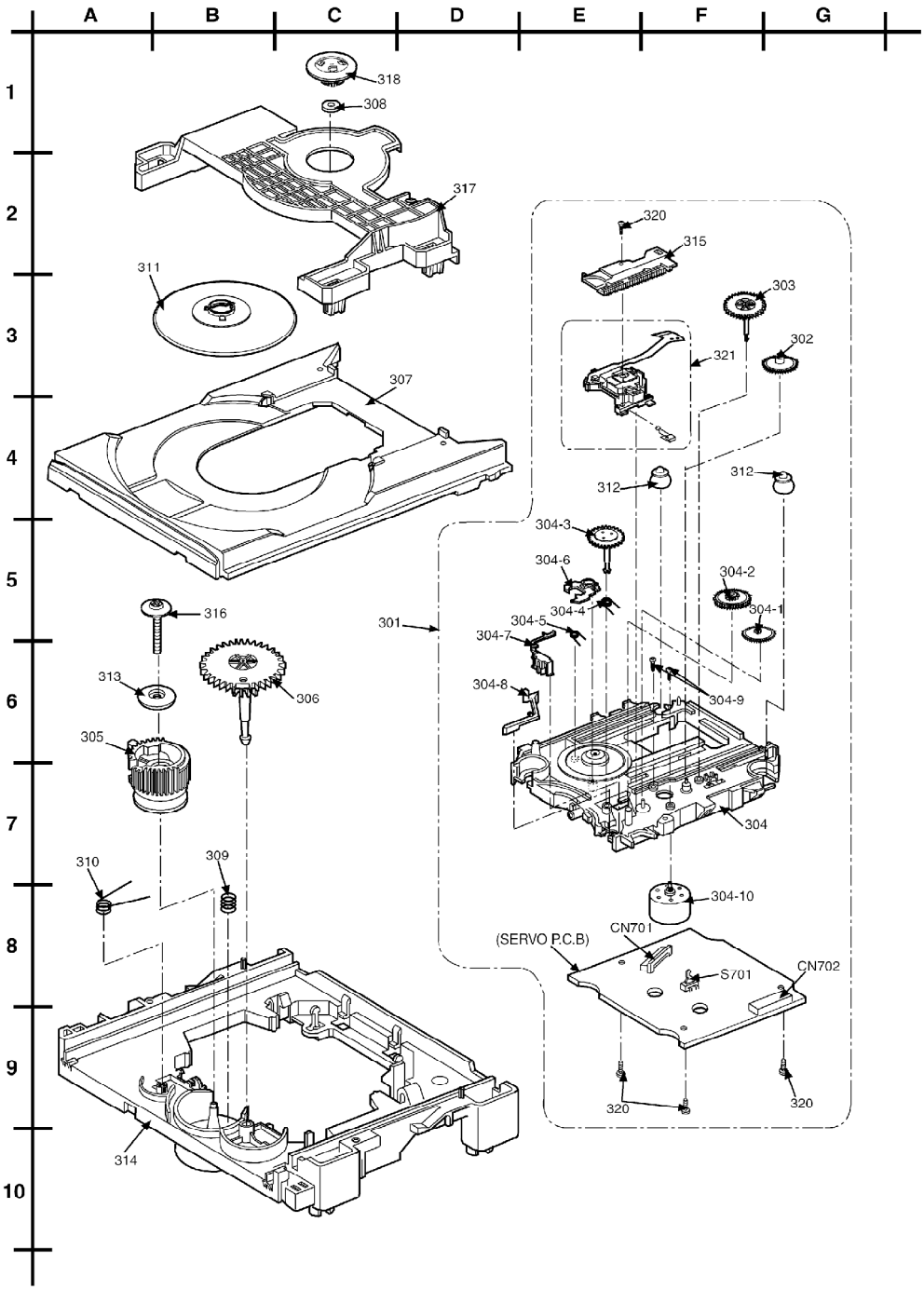


20.1.4. Deck Mechansim Part Lists

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0067	R/P HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0064	CAPSTAN BELT	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAB PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SPRING	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372	WINDING LEVER	[M]
119	RML0374	EJECT LEVER	[M]
120	RMM0131	BRAKE ROD	[M]
121	RMM0133-1	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RXQ0470	PLUNGER	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0061	FLYWHEEL F ASSY	[M]
128	RXG0040	FF RELAY GEAR ASSY	[M]
129	RMK0283A-J	SUB-CHASSIS	[M]
130	RXL0124	PINCH ROLLER F ASSY	[M]
130-1	RMB0401	PINCH ARM SPRING F	[M]
132	RXL0126	WINDING ARM ASSY	[M]
133	RXQ0412	HEAD PANEL ASSY	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	REM0098	CAP MOTOR ASSY	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5L	HEAD BLOCK UNIT SCRE	[M]
137	XTW26+10S	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17	PCB EARTH SCREW	[M]
139	RMK0294	MECHA CHASSIS	[M]

20.2. CD Loading Mechanism

20.2.1. CD Loading Mechanism Parts Location

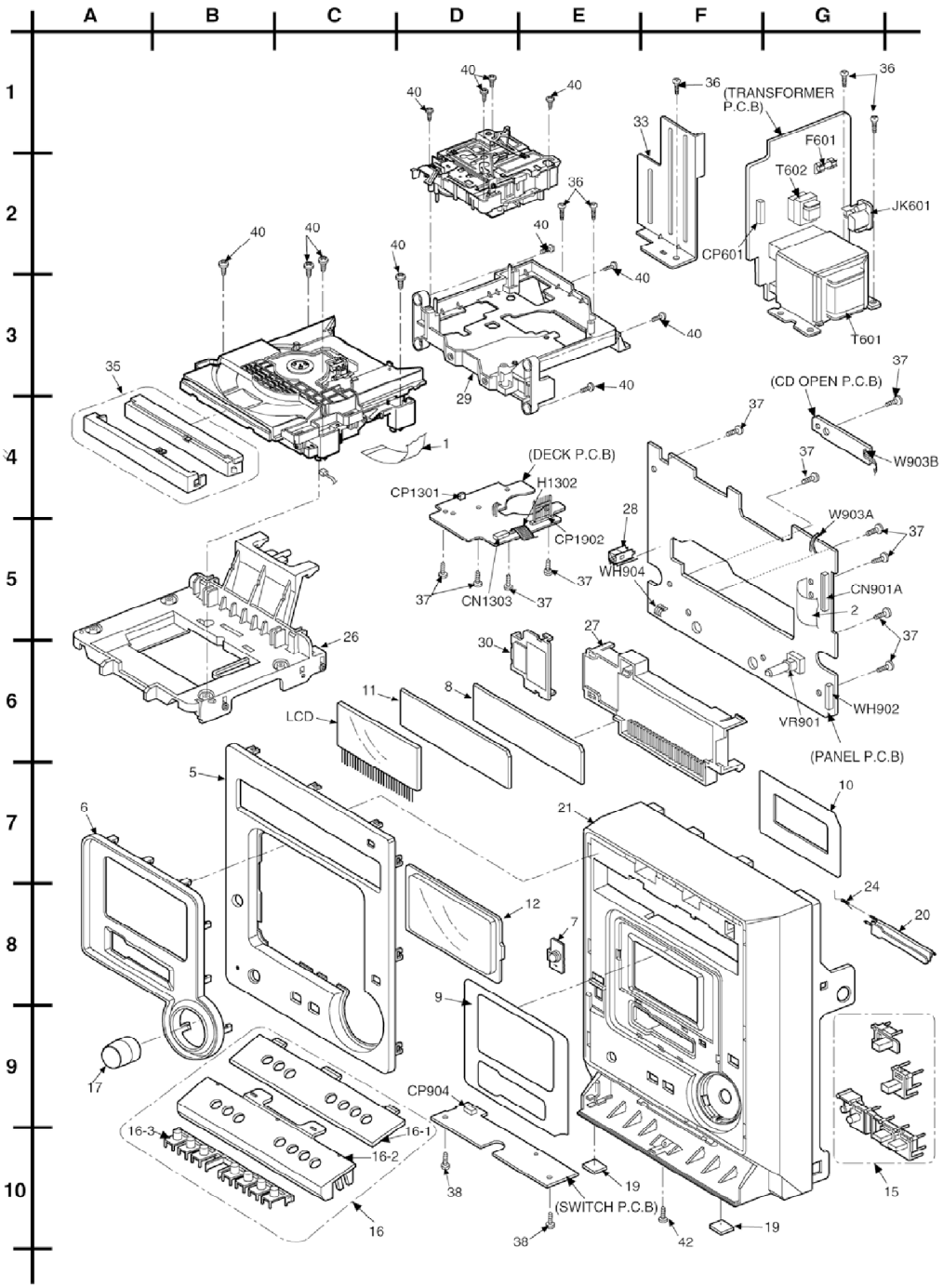


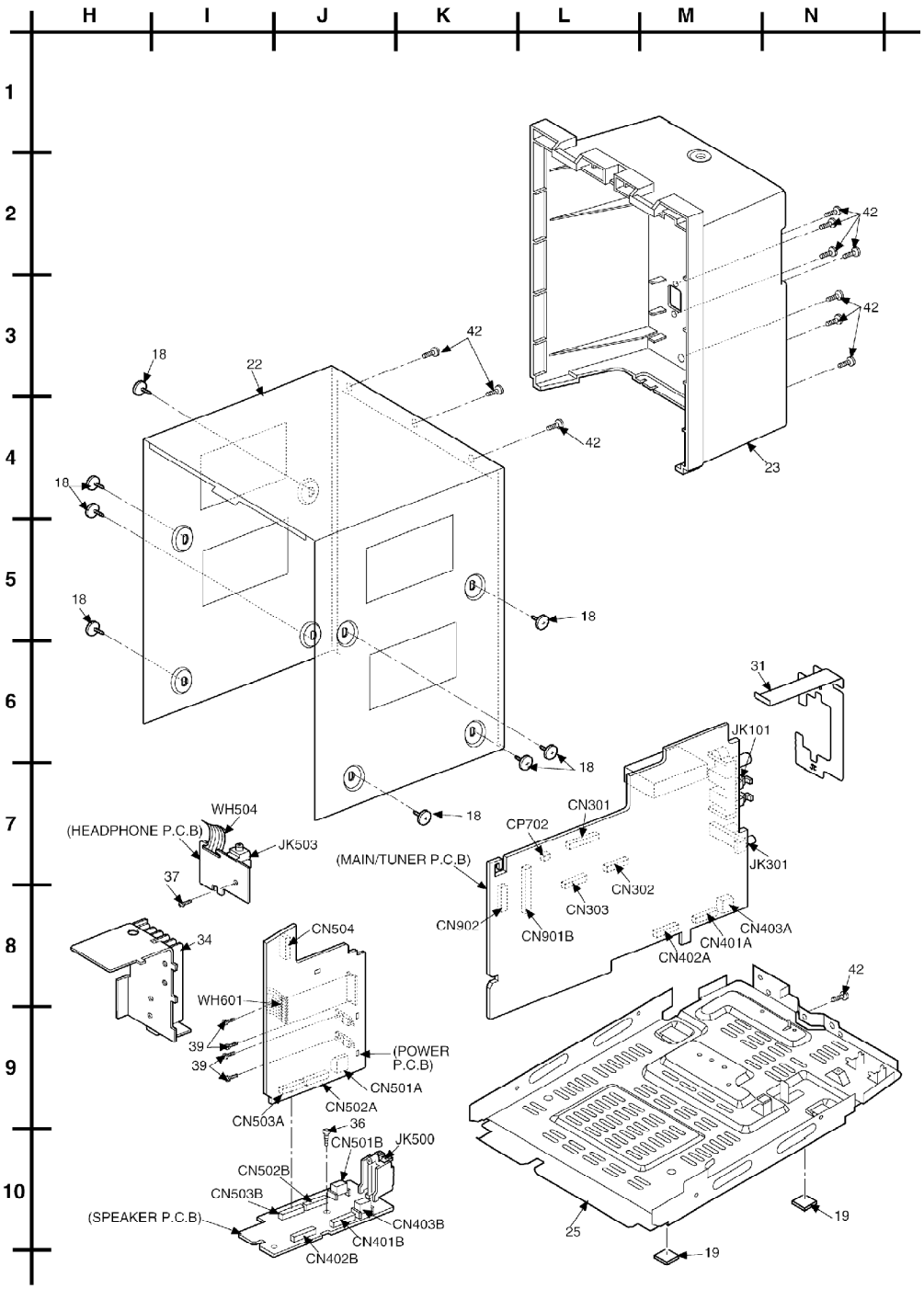
20.2.2. CD Loading Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RAE0155Z-1V	CT100W TRAVERSE	[M]
302	RDG0455	TRAVERSE GEAR (A)	[M]
303	RDG0456	TRAVERSE GEAR (B)	[M]
304	RFKNCT100	TRAVERSE BASE ASS'Y	[M]
304-1	RDG0457	LOAD GEAR (A)	[M]
304-10	RXQ0632	TRV MOTOR UNIT	[M]
304-2	RDG0458	LOAD GEAR (B)	[M]
304-3	RDG0459	LOAD GEAR (C)	[M]
304-4	RME0290	PRESS SPRING	[M]
304-5	RME0291	LOCK SPRING	[M]
304-6	RML0551	TRG LEVER	[M]
304-7	RML0552	LOCK LEVER	[M]
304-8	RMM0219	STOPPER	[M]
304-9	XQN17+C28F	SCREW	[M]
305	RDG0460	CAM GEAR	[M]
306	RDG0461	DRIVE GEAR	[M]
307	RGQ0254-K	TRAY	[M]
308	RHM0001	MAGNET	[M]
309	RMB0603	FLOATING SPRING	[M]
310	RME0288	CENTERING SPRING	[M]
311	RFKNXED50-S	CLAMPER HOLDER ASS'Y	[M]
312	RMG0510-K	FLOATING RUBBER (A)	[M]
313	RMG0511-K	FLOATING RUBBER (B)	[M]
314	RMK0422	MECHA CHASSIS	[M]
315	RMM0218	TRAVERSE DRIVE RACK	[M]
316	RHD30083	CAM. GEAR SCREW	[M]
317	RMR1223-K	CLAMP PLATE	[M]
318	RMR1242-X1	FIXTURE	[M]
320	XTN2+6G	SCREW	[M]
321	RXQ0704	OPU UNIT	[M]

20.3. Cabinet & CD Loading Mechanism

20.3.1. Cabinet & CD Loading Machanism Parts Location


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
(TRANSFORMER P.C.B)
F601
T602
JK601
CP601
T601
(CD OPEN P.C.B)
W903B
W903A
CN901A
WH902
VR901
(PANEL P.C.B)
(DECK P.C.B)
H1302
CP1301
CP1902
CN1303
WH904
LCD
CP904
(SWITCH P.C.B)



20.3.2. Cabinet & CD Loading Machanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEV0012	19P FFC	[M]
2	REEV0013	33P FFC	[M]
5	RGKV0002-S	FRONT ORNAMENT	[M]
6	RGKV0005-S	ORNAMENT INNER LIB	[M]
7	RGKX0067-W	SENSOR WINDOW	[M]
8	RGLV0001	LCD LIGHTING PANEL	[M]
9	RGPV0002-S	INNER ORNAMENT PANEL	[M]
10	RGPV0003-S	LCD SHEET	[M]
11	RGPV0004	LCD DIFFUSER	[M]
12	RGPV0005	DISPLAY WINDOW	[M]
15	RGUV0001-S	FAMILY MOULD(BUTTON)	[M]
16	RYPV0002	OPERATION PANEL UNIT	[M]
16-1	RGPV0006-W	OPERATION PANEL	[M]
16-2	RGPV0007-S1	OPERATION PANEL BASE	[M]
16-3	RGUV0005-S1	OPERATION BUTTON	[M]
17	RGWX0059-S	VOLUME KNOB	[M]
18	RHD30007-S	SCREW	[M]
19	RHGV0008	LEG CUSHION	[M]
20	RKFX0090-S	CASS LID	[M]
21	RKMV0001-S1	FRONT CABINET	[M]
22	RKMV0002-S	TOP CAB (BENT)	[M]
23	RKSV0001A-H	REAR CABINET	[M]E
23	RKSV0001B-H	REAR CABINET	[M]EB
23	RKSV0001-H	REAR CABINET	[M]EG
24	RMEV0001	CASS LID SPRING	[M]
25	RMKV0001	BOTTOM CHASSIS	[M]
26	RMKV0002-1	CHASSIS (CR100)	[M]
27	RMNV0001	LCD HOLDER	[M]
28	RMNX0055	SENSOR HOLDER	[M]
29	RMRV0001	TR2 CHASSIS	[M]
30	RMVV0009	LED COVER	[M]
31	RSCV0012	TUNER REAR SHIELD	[M]
33	RSCV0013-1	TR2 SHIELD	[M]
34	RXXV0001	HEAT SINK UNIT	[M]
35	RYFV0001-S	CD LID UNIT	[M]
36	XTB3+8JFZ	SCREW	[M]
37	XTBS26+10J	SCREW	[M]
38	XTBS26+8J	SCREW	[M]
39	XTV3+10F	SCREW (HEAT SINK)	[M]
40	XTV3+12G	SCREW	[M]
42	XTB3+10JFZ	SCREW	[M]

20.4. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		P.C.B.	
	REPV0001A	MAIN/TUNER P.C.B./ SPEAKER P.C.B./ HEADPHONE P.C.B./	[M] RTL
	REPV0002A	TRANSFORMER P.C.B./ PANEL P.C.B./SWITCH P.C.B. HEADPHONE P.C.B./ CD OPEN P.C.B./POWER P.C.B.	[M] RTL
	REP2807D	CD SERVO P.C.B.	[M] RTL
	REPX0108G	DECK MECHANISM P.C.B.	[M] RTL
		INTEGRATED CIRCUITS	
IC101	LA1833NMNTLM	IC IF & MPX	[M]
IC102	LC72131MDTRM	IC PLL	[M]
IC301	S-81333HG-Z	IC 3.3 REGULATOR	[M] ⚠
IC401	C0ABBB000127	IC OP AMP	[M]
IC403	BD3871FS-E2	IC ASP	[M]
IC501	LA4663	IC POWER	[M]
IC701	AN8885SBE1	IC HEAD AMP	[M]
IC702	MN662790RSC	IC LSI	[M]
IC703	BA5948FPE2	IC 4 CH DRIVE	[M]
IC801	MN101C38CRE1	IC MIRCRO-P	[M]
IC802	C3EBCG000008	IC EPROM	[M]
IC951	0N2180RLC1	IC PHOTO INTERUPTOR	[M]
IC1000	C1AA00000612	IC ANALOG SW	[M]
IC1001	AN7326K	IC DECK R/P	[M]
		TRANSISTORS	
Q1	2SK544F-AC	TRANSISTOR	[M]
Q2	B1AAAC000011	TRANSISTOR	[M]
Q3	B1AAAD000013	TRANSISTOR	[M]
Q4	B1AAAD000013	TRANSISTOR	[M]
Q101	2SC2058SPTA	TRANSISTOR	[M]
Q102	2SC2058SPTA	TRANSISTOR	[M]
Q106	KRA102MTA	TRANSISTOR	[M]
Q201	KTC3875GRTA	TRANSISTOR	[M]
Q202	KTD1304TA	TRANSISTOR	[M]
Q203	KTD1304TA	TRANSISTOR	[M]
Q204	KTC3875GRTA	TRANSISTOR	[M]
Q301	KRC101STA	TRANSISTOR	[M]
Q302	KRC101STA	TRANSISTOR	[M]
Q303	KRC101STA	TRANSISTOR	[M]
Q350	KRA111STA	TRANSISTOR	[M]
Q401	KTC3875GRTA	TRANSISTOR	[M]
Q402	KTD1304TA	TRANSISTOR	[M]
Q403	KTD1304TA	TRANSISTOR	[M]
Q404	KTC3875GRTA	TRANSISTOR	[M]
Q550	2SC1740SRTA	TRANSISTOR	[M]
Q551	2SC1741ASTPR	TRANSISTOR	[M]
Q600	KRC102MTA	TRANSISTOR	[M]
Q601	KTC2026	TRANSISTOR	[M] ⚠
Q602	KTC3199GRTA	TRANSISTOR	[M]
Q625	KTC3199GRTA	TRANSISTOR	[M]
Q626	KTA1046	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q629	KRC119MTA	TRANSISTOR	[M]
Q630	2SA952LTA	TRANSISTOR	[M]
Q631	KTC3199GRTA	TRANSISTOR	[M]
Q632	KTC3199GRTA	TRANSISTOR	[M]
Q633	KRA110MTA	TRANSISTOR	[M]
Q634	KTA1046	TRANSISTOR	[M]
Q635	2SD0592ARA	TRANSISTOR	[M] ⚠
Q701	2SA1037AKSTX	TRANSISTOR	[M]
Q801	2SC2712GRT5T	TRANSISTOR	[M]
Q802	2SC2712GRT5T	TRANSISTOR	[M]
Q803	KRC104STA	TRANSISTOR	[M]
Q804	DTC143XUA106	TRANSISTOR	[M]
Q805	DTC143XUA106	TRANSISTOR	[M]
Q1102	B1DEDQ000004	TRANSISTOR	[M]
Q1202	B1DEDQ000004	TRANSISTOR	[M]
Q1301	KRC111MTA	TRANSISTOR	[M]
Q1303	KRC119MTA	TRANSISTOR	[M]
Q1304	KRA102MTA	TRANSISTOR	[M]
Q1305	KRC102MTA	TRANSISTOR	[M]
Q1309	KTC3199GRTA	TRANSISTOR	[M]
Q1310	KTC3199GRTA	TRANSISTOR	[M]
Q1312	KTC3199GRTA	TRANSISTOR	[M]
Q1313	2SC1845FTA	TRANSISTOR	[M]
Q1314	KRA102MTA	TRANSISTOR	[M]
Q1315	KTA12710YTA	TRANSISTOR	[M]
Q1316	2SD09650RA	TRANSISTOR	[M]
Q1317	2SC2001LTA	TRANSISTOR	[M]
		DIODES	
D1	B0CAAD000002	DIODE	[M]
D2	B0CAAD000002	DIODE	[M]
D3	B0CAAD000002	DIODE	[M]
D101	UDZSTE175R1B	DIODE	[M]
D201	B0ACCK000005	DIODE	[M]
D350	UDZSTE177R5B	DIODE	[M]
D401	B0ACCK000005	DIODE	[M]
D600	RL1N4003S-P	DIODE	[M]
D601	RL1N4003S-P	DIODE	[M]
D602	B0BA6R800007	DIODE	[M]
D603	RL1N4003S-P	DIODE	[M]
D604	RL1N4003S-P	DIODE	[M]
D605	B0AACK000004	DIODE	[M]
D606	RL1N4003S-P	DIODE	[M]
D607	RL1N4003S-P	DIODE	[M]
D608	B0AACK000004	DIODE	[M]
D625	1N5402BM21	DIODE	[M] ⚠
D626	1N5402BM21	DIODE	[M] ⚠
D627	1N5402BM21	DIODE	[M] ⚠
D628	1N5402BM21	DIODE	[M] ⚠
D630	B0BA5R600016	DIODE	[M]
D633	RL1N4003S-P	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D634	RL1N4003S-P	DIODE	[M]
D635	MTZJ16ATA	DIODE	[M]
D636	B0AACK000004	DIODE	[M]
D638	RL1N4003S-P	DIODE	[M]
D639	RL1N4003S-P	DIODE	[M]
D640	B0BA5R000004	DIODE	[M]
D641	B0AACK000004	DIODE	[M]
D750	MAZ80560ML	DIODE	[M]
D801	1SS380TE-17	DIODE	[M]
D802	1SS380TE-17	DIODE	[M]
D804	1SS380TE-17	DIODE	[M]
D805	1SS380TE-17	DIODE	[M]
D806	B0ACCK000005	DIODE	[M]
D807	B0ACCK000005	DIODE	[M]
D902	SLI343YC3F	DIODE	[M]
D904	SLI343YC3F	DIODE	[M]
D906	SLI343YC3F	DIODE	[M]
D907	B0BA7R900004	DIODE	[M]
D908	SLC-22VR	DIODE	[M]
D951	MA165TA	DIODE	[M]
D1301	B0AACK000004	DIODE	[M]
		VARIABLE RESISTORS	
VR901	EVEME2F2524B	VOLUME ENCODER	[M]
		SWITCHES	
S701	RSH1A048-A	SW RESET	[M]
S780	RSH1A049-U	SW OPEN	[M]
S901	EVQ21405RJ	SW POWER	[M]
S902	EVQ21405RJ	SW REC	[M]
S903	EVQ21405RJ	SW PRESET EQ	[M]
S904	EVQ21405RJ	SW EJECT	[M]
S905	EVQ21405RJ	SW CD OPEN/CLOSE	[M]
S906	EVQ21405RJ	SW CD PLAY	[M]
S907	EVQ21405RJ	SW TAPE PLAY	[M]
S908	EVQ21405RJ	SW TUNER	[M]
S909	EVQ21405RJ	SW AUX	[M]
S910	EVQ21405RJ	SW FF	[M]
S911	EVQ21405RJ	SW STOP	[M]
S912	EVQ21405RJ	SW REW	[M]
S951	RSH1A018-3U	SW MODE	[M]
S952	RSH1A019-2U	SW LEAF	[M]
S953	RSH1A019-2U	SW LEAF	[M]
S954	RSH1A019-2U	SW LEAF	[M]
S1301	K0F111A00375	SW DECK MODE	[M]
		CONNECTORS	
CN301	RJS1A6819-J	19P FFC CONNECTOR	[M]
CN401A	K1KB11A00020	11P CONNECTOR	[M]
CN401B	K1KA11A00093	11P CONNECTOR	[M]
CN402A	K1KB11A00020	11P CONNECTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
CN402B	K1KA11A00093	11P CONNECTOR	[M]
CN403A	RJP3G9YA	CONNECTOR	[M]
CN403B	SJS50378JQ	3P CONNECTOR	[M]
CN501A	K1KA04B00058	CONNECTOR	[M]
CN501B	K1KB04A00035	B/B CONNECTOR	[M]
CN502A	K1KB11A00020	11P CONNECTOR	[M]
CN502B	K1KA11A00093	11P CONNECTOR	[M]
CN503A	K1KB11A00020	11P CONNECTOR	[M]
CN503B	K1KA11A00093	11P CONNECTOR	[M]
CN504	K1MP06A00003	TO TUNER PCB	[M]
CN701	RJS2A8616	16P FPC CONNECTOR	[M]
CN702	RJS1A9319	19P FFC CONNECTOR	[M]
CN901A	K1MN33A00005	33P CONNECTOR	[M]
CN901B	K1MN33A00005	33P CONNECTOR	[M]
CN902	K1KA09A00099	CONNECTOR	[M]
CN1302	K1KA09A00099	CONNECTOR	[M]
CN1303	K1KA10B00148	10P CONNECTOR	[M]
CN1303	RJP10G18ZA	CONNECTOR	[M]
CP601	RJT119W10V	10P CONNECTOR	[M]
CP702	REXX0230-1	2P MAIN TO CR100	[M]
CP904	RJT119W03H	3P CONNECTOR	[M]
CP1301	RJS1A6805-J	CONNECTOR	[M]
CP1902	K1KA09B00058	CONNECTOR	[M]
CS951	RJU071H09M1	CONNECTOR	[M]
		COILS & TRANSFORMERS	
L1	RLQZP1R2JT-Y	RF CHOKE COIL	[M]
L2	G0CR47KA0029	RF CHOKE COIL	[M]
L101	RLQBR39KT-1Y	COIL	[M]
L102	RLQBR39KT-1Y	COIL	[M]
L251	RLQZR73MT-T	CHOKE COIL	[M]
L252	RLQZR73MT-T	CHOKE COIL	[M]
L451	RLQZR73MT-T	CHOKE COIL	[M]
L452	RLQZR73MT-T	CHOKE COIL	[M]
L601	RLQZ271M	AC LINE COIL	[M] ⚠
L800	G0C3R3JA0027	COIL	[M]
L801	G0C3R3JA0027	COIL	[M]
L802	G0C2R2JA0027	COIL	[M]
L1301	7L1A62N	BIAS OCS COIL	[M]
T601	G4C5ACH00004	POWER TRANSFORMER	[M] ⚠
T602	RTP1H3E001	BACK UP TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z101	RLA2Z005-C	AM COIL	[M]
Z102	RLI2Z021M-T	AM IF BLOCK	[M]
Z120	ENV17290G1Y	FM TUNER PACK	[M]
Z601	ERZV10V511CS	ZENER	[M] ⚠
Z901	L5ACAGC00005	LCD	[M]
Z902	RCD61H367AF3	REMOTE SENSOR	[M]
		CERAMIC FILTERS	

Ref. No.	Part No.	Part Name & Description	Remarks
CF201	J0B1075A0086	CERAMIC CAPACITOR	[M]
CF202	J0B1075A0077	CERAMIC FILTER	[M]
		RELAY	
RLY601	RSY0040M-0	POWER RELAY	[M] ⚠
		OSCILLATORS	
X102	RLFDFT22DD	CRYSTAL OSCILLATOR	[M]
X103	H0H720400005	CRYSTAL OSCILLATOR	[M]
X701	RSXZ16M9M06	CERAMIC OSCILLATOR	[M]
X801	RSXZ6M00D01T	RESONATOR	[M]
X802	RSXD32K7S02	CRYSTAL OSCILLATOR	[M]
		FUSES	
F601	K5Y630B00001	FUSE	[M] ⚠
F602	K5D311BK0006	FUSE	[M] ⚠
		FUSE HOLDERS	
FC601	EYF52BC	FUSE HOLDER	[M]
FC602	EYF52BC	FUSE HOLDER	[M]
FC603	EYF52BC	FUSE HOLDER	[M]
FC604	EYF52BC	FUSE HOLDER	[M]
		JACKS	
JK101	RJH8304N	JK ANTENNA	[M]
JK301	RJH2206	JK RCA PIN	[M]
JK500	RJR0054B-L	JK SPEAKER TERMINAL	[M]
JK503	K2HC103B0049	JK HEAD PHONE	[M]
JK601	SJS9236-1	JK AC INLET	[M] ⚠
		EARTH TERMINAL	
E501	K9ZZ00000424	EARTH TERMINAL	[M]
		WIRES	
W601	REXV0004	10P TRANS TO POWER	[M]
W902	REXV0003	9P WIRE	[M]
W903	RWJ0102090KK	LEAF SW WIRE	[M]
W904	REXV0005	3P WIRE	[M]
W1302	REXV0001	9P WIRE DECK TO MAIN	[M]
W1303	REXV0002	10P WIRE	[M]
W1903	RWJ0102050KR	MOTOR WIRE	[M]
		WIRES	
WH504	RMR0315	6P WIRE HOLDER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
WH601	K1YF10000003	10P CONNECTOR	[M]
WH904	K1YF03000003	3P CABLE HOLDER	[M]
WH1302	RMR0318	9P WIRE HOLDER	[M]
		RESISTORS	
R1	ERDS2TJ104T	100K 1/4W	[M]
R2	ERDS2TJ104T	100K 1/4W	[M]
R3	ERDS2TJ221T	220 1/4W	[M]
R4	ERDS2TJ104T	100K 1/4W	[M]
R5	ERDS2TJ564T	560K 1/4W	[M]
R6	ERDS2TJ391T	390 1/4W	[M]
R7	ERDS2TJ272T	2.7K 1/4W	[M]
R8	ERDS2TJ684T	680K 1/4W	[M]
R9	ERDS2TJ391T	390 1/4W	[M]
R10	ERDS2TJ391T	390 1/4W	[M]
R11	ERDS2TJ684T	680K 1/4W	[M]
R102	ERJ3GEYJ472V	4.7K 1/16W	[M]
R103	ERJ3GEYJ101V	100 1/16W	[M]
R104	ERJ3GEYJ103V	10K 1/16W	[M]
R105	ERJ3GEYJ471V	470 1/16W	[M]
R106	ERJ3GEYJ474V	470K 1/16W	[M]
R107	ERJ3GEYJ331V	330 1/16W	[M]
R108	ERJ3GEYJ474V	470K 1/16W	[M]
R109	ERJ3GEYJ331V	330 1/16W	[M]
R110	ERJ3GEYJ102V	1K 1/16W	[M]
R111	ERJ3GEYJ391V	390 1/16W	[M]
R112	ERJ3GEYJ104V	100K 1/16W	[M]
R113	ERJ3GEYJ103V	10K 1/16W	[M]
R114	ERJ3GEYJ562V	5.6K 1/16W	[M]
R115	ERJ3GEYJ561V	560 1/16W	[M]
R116	ERJ3GEYJ102V	1K 1/16W	[M]
R117	ERJ3GEYJ683V	68K 1/16W	[M]
R118	ERJ3GEYJ332V	3.3K 1/16W	[M]
R119	ERJ3GEYJ123V	12K 1/16W	[M]
R120	ERJ3GEYJ473V	47K 1/16W	[M]
R121	ERJ3GEYJ223V	22K 1/16W	[M]
R122	ERJ3GEYJ272V	2.7K 1/16W	[M]
R123	ERJ3GEYJ683V	68K 1/16W	[M]
R124	ERJ3GEYJ330V	33 1/16W	[M]
R125	ERJ3GEYJ471V	470 1/16W	[M]
R126	ERJ3GEYJ102V	1K 1/16W	[M]
R127	ERJ3GEYJ471V	470 1/16W	[M]
R128	ERJ3GEYJ820V	82 1/16W	[M]
R129	ERJ3GEYJ273V	27K 1/16W	[M]
R130	ERJ3GEYJ103V	10K 1/16W	[M]
R131	ERJ3GEYJ680V	68 1/16W	[M]
R132	ERJ3GEYJ103V	10K 1/16W	[M]
R133	ERJ3GEYJ102V	1K 1/16W	[M]
R134	ERJ3GEYJ471V	470 1/16W	[M]
R135	ERJ3GEYJ102V	1K 1/16W	[M]
R136	ERJ3GEYJ102V	1K 1/16W	[M]
R137	ERJ3GEYJ102V	1K 1/16W	[M]
R138	ERJ3GEYJ332V	3.3K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R141	ERJ3GEYJ682V	6.8K 1/16W	[M]
R142	ERJ3GEYJ682V	6.8K 1/16W	[M]
R143	ERJ3GEYJ223V	22K 1/16W	[M]
R145	ERJ3GEYJ104V	100K 1/16W	[M]
R146	ERJ3GEYJ104V	100K 1/16W	[M]
R151	ERJ3GEYJ820V	82 1/16W	[M]
R152	ERJ3GEY0R00V	0 1/16W	[M]
R201	ERJ3GEYJ123V	12K 1/16W	[M]
R202	ERJ3GEYJ273V	27K 1/16W	[M]
R203	ERJ3GEYJ682V	6.8K 1/16W	[M]
R204	ERJ3GEYJ223V	22K 1/16W	[M]
R205	ERJ3GEYJ102V	1K 1/16W	[M]
R206	ERJ3GEYJ223V	22K 1/16W	[M]
R207	ERJ3GEYJ102V	1K 1/16W	[M]
R208	ERJ3GEYJ394V	390K 1/16W	[M]
R209	ERJ3GEYJ682V	6.8K 1/16W	[M]
R210	ERJ3GEYJ153V	15K 1/16W	[M]
R211	ERJ3GEYJ223V	22K 1/16W	[M]
R213	ERJ3GEYJ472V	4.7K 1/16W	[M]
R214	ERJ3GEYJ123V	12K 1/16W	[M]
R215	ERJ3GEYJ272V	2.7K 1/16W	[M]
R216	ERJ3GEYJ472V	4.7K 1/16W	[M]
R217	ERJ3GEYJ224V	220K 1/16W	[M]
R218	ERJ3GEYJ333V	33K 1/16W	[M]
R219	ERJ3GEYJ123V	12K 1/16W	[M]
R220	ERJ3GEYJ271V	270 1/16W	[M]
R221	ERJ3GEYJ334V	330K 1/16W	[M]
R222	ERJ3GEYJ472V	4.7K 1/16W	[M]
R227	ERJ3GEYJ105V	1M 1/16W	[M]
R228	ERJ3GEYJ102V	1K 1/16W	[M]
R229	ERJ3GEYJ392V	3.9K 1/16W	[M]
R232	ERJ3GEYJ102V	1K 1/16W	[M]
R250	ERDS2TJ102T	1K 1/4W	[M]
R251	ERDS2TJ123T	12K 1/4W	[M]
R252	ERD2FCVJ4R7T	4.7 1/4W	[M]
R253	ERD2FCVJ4R7T	4.7 1/4W	[M]
R254	ERDS2TJ181T	180 1/4W	[M]
R255	ERJ3GEYJ153V	15K 1/16W	[M]
R301	ERJ3GEYJ103V	10K 1/16W	[M]
R302	ERJ3GEYJ103V	10K 1/16W	[M]
R303	ERJ3GEYJ103V	10K 1/16W	[M]
R304	ERJ3GEYJ103V	10K 1/16W	[M]
R305	ERJ3GEYJ103V	10K 1/16W	[M]
R306	ERJ3GEYJ472V	4.7K 1/16W	[M]
R307	ERJ3GEYJ472V	4.7K 1/16W	[M]
R308	ERJ3GEYJ472V	4.7K 1/16W	[M]
R309	ERJ3GEYJ103V	10K 1/16W	[M]
R310	ERJ3GEYJ472V	4.7K 1/16W	[M]
R311	ERJ3GEYJ103V	10K 1/16W	[M]
R312	ERJ3GEYJ103V	10K 1/16W	[M]
R313	ERJ3GEYJ472V	4.7K 1/16W	[M]
R315	ERJ3GEYJ472V	4.7K 1/16W	[M]
R316	ERJ3GEYJ472V	4.7K 1/16W	[M]
R317	ERJ3GEYJ472V	4.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R318	ERJ3GEYJ103V	10K 1/16W	[M]
R319	ERJ3GEYJ103V	10K 1/16W	[M]
R350	ERJ3GEYJ102V	1K 1/16W	[M]
R351	ERD2FCVG330T	33 1/4W	[M]
R352	ERJ3GEYJ222V	2.2K 1/16W	[M]
R354	ERJ3GEYJ103V	10K 1/16W	[M]
R355	ERJ3GEYJ102V	1K 1/16W	[M]
R356	ERJ3GEYJ154V	150K 1/16W	[M]
R401	ERJ3GEYJ123V	12K 1/16W	[M]
R402	ERJ3GEYJ273V	27K 1/16W	[M]
R403	ERJ3GEYJ682V	6.8K 1/16W	[M]
R404	ERJ3GEYJ223V	22K 1/16W	[M]
R405	ERJ3GEYJ102V	1K 1/16W	[M]
R406	ERJ3GEYJ223V	22K 1/16W	[M]
R407	ERJ3GEYJ102V	1K 1/16W	[M]
R408	ERJ3GEYJ394V	390K 1/16W	[M]
R409	ERJ3GEYJ682V	6.8K 1/16W	[M]
R410	ERJ3GEYJ153V	15K 1/16W	[M]
R411	ERJ3GEYJ223V	22K 1/16W	[M]
R413	ERJ3GEYJ472V	4.7K 1/16W	[M]
R414	ERJ3GEYJ123V	12K 1/16W	[M]
R415	ERJ3GEYJ272V	2.7K 1/16W	[M]
R416	ERJ3GEYJ472V	4.7K 1/16W	[M]
R417	ERJ3GEYJ224V	220K 1/16W	[M]
R418	ERJ3GEYJ333V	33K 1/16W	[M]
R419	ERJ3GEYJ123V	12K 1/16W	[M]
R420	ERJ3GEYJ271V	270 1/16W	[M]
R421	ERJ3GEYJ334V	330K 1/16W	[M]
R422	ERJ3GEYJ472V	4.7K 1/16W	[M]
R429	ERJ3GEYJ392V	3.9K 1/16W	[M]
R432	ERJ3GEYJ102V	1K 1/16W	[M]
R450	ERDS2TJ102T	1K 1/4W	[M]
R451	ERDS2TJ123T	12K 1/4W	[M]
R452	ERD2FCVJ4R7T	4.7 1/4W	[M]
R453	ERD2FCVJ4R7T	4.7 1/4W	[M]
R454	ERDS2TJ181T	180 1/4W	[M]
R455	ERJ3GEYJ153V	15K 1/16W	[M]
R510	ERDS2TJ103T	10K 1/4W	[M]
R513	ERDS2TJ103T	10K 1/4W	[M]
R518	ERDS2TJ563T	56K 1/4W	[M]
R552	ERDS2TJ104T	100K 1/4W	[M]
R553	ERDS2TJ683T	68K 1/4W	[M]
R554	ERDS2TJ471T	470 1/4W	[M]
R600	ERDS1FVJ4R7T	4.7 1/2W	[M]
R603	ERDS2TJ102T	1K 1/4W	[M]
R604	ERDS2TJ151T	150 1/4W	[M]
R605	ERDS2TJ103T	10K 1/4W	[M]
R606	ERDS2TJ103T	10K 1/4W	[M]
R607	ERDS2TJ472T	4.7K 1/4W	[M]
R608	ERDS2TJ473T	47K 1/4W	[M]
R625	ERDS2TJ561T	560 1/4W	[M]
R628	ERDS2TJ102T	1K 1/4W	[M]
R631	ERJ3GEYJ473V	47K 1/16W	[M]
R632	ERJ3GEYJ152V	1.5K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R633	ERDS2TJ1R2T	1.2 1/4W	[M]
R634	ERDS2TJ1R2T	1.2 1/4W	[M]
R635	ERDS2TJ1R2T	1.2 1/4W	[M]
R637	ERDS2TJ121T	120 1/4W	[M]
R638	ERDS2TJ121T	120 1/4W	[M]
R639	ERDS2TG152T	1.5K 1/4W	[M]
R640	ERDS2TG152T	1.5K 1/4W	[M]
R641	ERDS2TJ104T	100K 1/4W	[M]
R642	ERD2FCVG220T	22 1/4W	[M]
R643	ERDS2TJ122T	1.2K 1/4W	[M]
R644	ERDS2TJ101T	100 1/4W	[M]
R645	ERDS2TJ223T	22K 1/4W	[M]
R647	ERDS2TJ181T	180 1/4W	[M]
R648	ERDS2TJ182T	1.8K 1/4W	[M]
R701	ERJ3GEYJ4R7V	4.7 1/16W	[M]
R702	ERJ3GEYJ103V	10K 1/16W	[M]
R704	ERJ3GEYJ102V	1K 1/16W	[M]
R705	ERJ3GEYJ154V	150K 1/16W	[M]
R706	ERJ3GEYJ102V	1K 1/16W	[M]
R707	ERJ3GEYJ393V	39K 1/16W	[M]
R708	ERJ3GEYJ223V	22K 1/16W	[M]
R709	ERJ3GEYJ473V	47K 1/16W	[M]
R711	ERJ3GEYJ823V	82K 1/16W	[M]
R712	ERJ3GEYJ221V	220 1/16W	[M]
R714	ERJ3GEY0R00V	0 1/16W	[M]
R715	ERJ3GEYJ102V	1K 1/16W	[M]
R717	ERJ3GEYJ102V	1K 1/16W	[M]
R718	ERJ3GEYJ102V	1K 1/16W	[M]
R721	ERJ3GEYJ101V	100 1/16W	[M]
R723	ERJ3GEYJ103V	10K 1/16W	[M]
R724	ERJ3GEYJ153V	15K 1/16W	[M]
R725	ERJ3GEYJ681V	680 1/16W	[M]
R727	ERJ3GEYJ272V	2.7K 1/16W	[M]
R728	ERJ3GEYJ222V	2.2K 1/16W	[M]
R729	ERJ3GEYJ272V	2.7K 1/16W	[M]
R731	ERJ3GEYJ103V	10K 1/16W	[M]
R732	ERJ3GEYJ102V	1K 1/16W	[M]
R735	ERJ3GEYJ101V	100 1/16W	[M]
R736	ERJ3GEYJ101V	100 1/16W	[M]
R741	ERJ3GEYJ473V	47K 1/16W	[M]
R742	ERJ3GEYJ224V	220K 1/16W	[M]
R744	ERJ3GEYJ124V	120K 1/16W	[M]
R749	ERJ3GEYJ272V	2.7K 1/16W	[M]
R753	ERJ3GEYJ100V	10 1/16W	[M]
R754	ERJ3GEYJ5R6V	5.6 1/16W	[M]
R761	ERJ3GEYJ472V	4.7K 1/16W	[M]
R801	ERJ3GEYJ154V	150K 1/16W	[M]
R802	ERJ3GEYJ154V	150K 1/16W	[M]
R803	ERJ3GEYJ154V	150K 1/16W	[M]
R804	ERJ3GEYJ473V	47K 1/16W	[M]
R805	ERJ3GEYJ102V	1K 1/16W	[M]
R806	ERJ3GEYJ105V	1M 1/16W	[M]
R807	ERJ3GEYJ222V	2.2K 1/16W	[M]
R808	ERJ3GEYJ222V	2.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R809	ERJ3GEYJ334V	330K 1/16W	[M]
R810	ERJ3GEYJ103V	10K 1/16W	[M]
R811	ERJ3GEYJ103V	10K 1/16W	[M]
R812	ERJ3GEYJ272V	2.7K 1/16W	[M]
R813	ERJ3GEYJ471V	470 1/16W	[M]
R814	ERJ3GEYJ471V	470 1/16W	[M]
R815	ERJ3GEYJ103V	10K 1/16W	[M]
R816	ERJ3GEYJ102V	1K 1/16W	[M]
R817	ERJ3GEYJ473V	47K 1/16W	[M]
R818	ERJ3GEYJ102V	1K 1/16W	[M]
R819	ERJ3GEYJ102V	1K 1/16W	[M]
R820	ERJ3GEYJ102V	1K 1/16W	[M]
R821	ERJ3GEYJ102V	1K 1/16W	[M]
R822	ERJ3GEYJ102V	1K 1/16W	[M]
R823	ERJ3GEYJ104V	100K 1/16W	[M]
R824	ERJ3GEYJ102V	1K 1/16W	[M]
R825	ERJ3GEYJ102V	1K 1/16W	[M]
R826	ERJ3GEYJ102V	1K 1/16W	[M]
R827	ERJ3GEYJ102V	1K 1/16W	[M]
R828	ERJ3GEYJ332V	3.3K 1/16W	[M]
R829	ERJ3GEYJ104V	100K 1/16W	[M]
R830	ERJ3GEYJ222V	2.2K 1/16W	[M]
R831	ERJ3GEYJ104V	100K 1/16W	[M]
R832	ERJ3GEYJ223V	22K 1/16W	[M]
R833	ERJ3GEYJ104V	100K 1/16W	[M]
R834	ERJ3GEYJ473V	47K 1/16W	[M]
R835	ERJ3GEYJ104V	100K 1/16W	[M]
R836	ERJ3GEYJ104V	100K 1/16W	[M]
R838	ERJ3GEYJ104V	100K 1/16W	[M]
R840	ERJ3GEYJ102V	1K 1/16W	[M]
R842	ERJ3GEYJ473V	47K 1/16W	[M]
R843	ERJ3GEYJ473V	47K 1/16W	[M]
R844	ERJ3GEYJ102V	1K 1/16W	[M]
R845	ERJ3GEYJ102V	1K 1/16W	[M]
R846	ERJ3GEYJ102V	1K 1/16W	[M]
R847	ERJ3GEYJ472V	4.7K 1/16W	[M]
R849	ERJ3GEYJ104V	100K 1/16W	[M]
R850	ERJ3GEYJ473V	47K 1/16W	[M]
R879	ERJ3GEYJ472V	4.7K 1/16W	[M]
R883	ERJ3GEYJ473V	47K 1/16W	[M]
R901	ERDS2TJ102T	1K 1/4W	[M]
R902	ERDS2TJ102T	1K 1/4W	[M]
R903	ERDS2TJ152T	1.5K 1/4W	[M]
R904	ERDS2TJ222T	2.2K 1/4W	[M]
R905	ERDS2TJ332T	3.3K 1/4W	[M]
R906	ERDS2TJ102T	1K 1/4W	[M]
R907	ERDS2TJ102T	1K 1/4W	[M]
R908	ERDS2TJ152T	1.5K 1/4W	[M]
R909	ERDS2TJ222T	2.2K 1/4W	[M]
R910	ERDS2TJ332T	3.3K 1/4W	[M]
R911	ERDS2TJ472T	4.7K 1/4W	[M]
R912	ERDS2TJ822T	8.2K 1/4W	[M]
R913	ERDS2TJ331T	330 1/4W	[M]
R914	ERDS2TJ331T	330 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R915	ERDS2TJ331T	330 1/4W	[M]
R916	ERDS2TJ104T	100K 1/4W	[M]
R917	ERDS2TJ104T	100K 1/4W	[M]
R918	ERDS2TJ102T	1K 1/4W	[M]
R952	ERDS2TJ821T	820 1/4W	[M]
R953	ERDS2TJ393T	39K 1/4W	[M]
R1101	ERDS2TJ470T	47 1/4W	[M]
R1102	ERDS2TJ122T	1.2K 1/4W	[M]
R1103	ERDS2TJ183T	18K 1/4W	[M]
R1104	ERDS2TJ103T	10K 1/4W	[M]
R1105	ERDS2TJ222T	2.2K 1/4W	[M]
R1106	ERDS2TJ104T	100K 1/4W	[M]
R1108	ERDS2TJ272T	2.7K 1/4W	[M]
R1109	ERDS2TJ102T	1K 1/4W	[M]
R1110	ERDS2TJ473T	47K 1/4W	[M]
R1201	ERDS2TJ470T	47 1/4W	[M]
R1202	ERDS2TJ122T	1.2K 1/4W	[M]
R1203	ERDS2TJ183T	18K 1/4W	[M]
R1204	ERDS2TJ103T	10K 1/4W	[M]
R1205	ERDS2TJ222T	2.2K 1/4W	[M]
R1206	ERDS2TJ104T	100K 1/4W	[M]
R1208	ERDS2TJ272T	2.7K 1/4W	[M]
R1209	ERDS2TJ102T	1K 1/4W	[M]
R1210	ERDS2TJ473T	47K 1/4W	[M]
R1302	ERDS2TJ223T	22K 1/4W	[M]
R1303	ERDS2TJ475T	4.7M 1/4W	[M]
R1304	ERDS2TJ223T	22K 1/4W	[M]
R1305	ERDS2TJ103T	10K 1/4W	[M]
R1307	ERDS2TJ220T	22 1/4W	[M]
R1308	ERDS2TJ220T	22 1/4W	[M]
R1309	ERDS2TJ471T	470 1/4W	[M]
R1310	ERDS2TJ472T	4.7K 1/4W	[M]
R1311	ERDS2TJ473T	47K 1/4W	[M]
R1312	ERDS2TJ103T	10K 1/4W	[M]
R1314	ERDS2TJ102T	1K 1/4W	[M]
R1316	ERDS2TJ102T	1K 1/4W	[M]
R1317	ERDS2TJ123T	12K 1/4W	[M]
R1318	ERDS2TJ123T	12K 1/4W	[M]
R1320	ERDS2TJ103T	10K 1/4W	[M]
R1321	ERDS2TJ223T	22K 1/4W	[M]
R1322	ERDS2TJ103T	10K 1/4W	[M]
R1323	ERDS2TJ223T	22K 1/4W	[M]
R1324	ERDS2TJ274T	270K 1/4W	[M]
R1327	ERDS2TJ472T	4.7K 1/4W	[M]
R1328	ERDS2TJ153T	15K 1/4W	[M]
R1329	ERDS2TJ472T	4.7K 1/4W	[M]
R1330	ERD2FCVJ4R7T	4.7 1/4W	[M]
R1331	ERDS2TJ752T	7.5K 1/4W	[M]
R1332	ERDS2TJ103T	10K 1/4W	[M]
R1333	ERD2FCVJ4R7T	4.7 1/4W	[M]
R1334	ERDS2TJ223T	22K 1/4W	[M]
R1335	ERDS2TJ152T	1.5K 1/4W	[M]
R1336	ERDS2TJ152T	1.5K 1/4W	[M]
R1337	ERDS2TJ103T	10K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1341	ERDS2TJ681T	680 1/4W	[M]
R1343	ERDS2TJ273T	27K 1/4W	[M]
R1344	ERDS2TJ332T	3.3K 1/4W	[M]
R1345	ERDS2TJ102T	1K 1/4W	[M]
R1350	ERDS2TJ223T	22K 1/4W	[M]
JB2	ERJ8GEY0R00V	0 1/8W	[M]
JB3	ERJ8GEY0R00V	0 1/8W	[M]
JB4	ERJ8GEY0R00V	0 1/8W	[M]
JB5	ERJ8GEY0R00V	0 1/8W	[M]
JB6	ERJ8GEY0R00V	0 1/8W	[M]
		CAPACITORS	
C1	F1D1H5R6A017	5.6P 50V	[M]
C2	F1D1H102A029	1000P 50V	[M]
C3	F1D1H2R2A017	2.2P 50V	[M]
C4	ECBT1H181KB5	180P 50V	[M]
C5	F1D1H5R6A017	5.6P 50V	[M]
C6	F1D1H3R3A017	3.3P 50V	[M]
C7	F1D1H4R7A017	4.7P 50V	[M]
C8	F1D1H3R3A017	3.3P 50V	[M]
C9	F1D1H2R2A017	2.2P 50V	[M]
C10	ECBT1H180JC5	18P 50V	[M]
C11	F1D1H102A029	1000P 50V	[M]
C101	ECUV1E103KBV	0.01 25V	[M]
C102	ECA1CAK101XB	100 16V	[M]
C103	ECUV1E103KBV	0.01 25V	[M]
C104	ECJ1VB1H102K	1000P 50V	[M]
C105	ECJ1VB1H102K	1000P 50V	[M]
C106	ECUV1E103KBV	0.01 25V	[M]
C107	ECUV1E473KBV	0.047 25V	[M]
C108	ECUV1H080DCV	8P 50V	[M]
C109	ECJ1VB1H102K	1000P 50V	[M]
C110	ECUV1E103KBV	0.01 25V	[M]
C111	ECA1HAK4R7XB	4.7 50V	[M]
C112	ECUV1E103KBV	0.01 25V	[M]
C113	ECJ1VB1H102K	1000P 50V	[M]
C114	ECA1HAK3R3XB	3.3 50V	[M]
C115	ECA1HAK4R7XB	4.7 50V	[M]
C116	ECUV1C333KBV	0.033 16V	[M]
C117	ECUV1E103KBV	0.01 25V	[M]
C118	ECUV1E103KBV	0.01 25V	[M]
C119	F0A2A561A010	560P 100V	[M]
C120	ECA1CAK100XB	10 16V	[M]
C121	ECA1HAKR47XB	0.47 50V	[M]
C122	ECA1HAK010XB	1 50V	[M]
C123	ECA1HAK010XB	1 50V	[M]
C124	ECUV1H101JCV	100P 50V	[M]
C125	ECA1CAK220XB	22 16V	[M]
C126	ECUVNA105ZFV	10 10V	[M]
C127	ECA1CAK220XB	22 16V	[M]
C129	ECA1CAK101XB	100 16V	[M]
C130	ECA1CAK101XB	100 16V	[M]
C131	ECUV1H101JCV	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C132	ECJ1VB1H102K	1000P 50V	[M]
C133	ECUV1H270JCV	27P 50V	[M]
C134	ECUV1H270JCV	27P 50V	[M]
C136	ECJ1VB1H102K	1000P 50V	[M]
C137	ECUV1H332KBV	3300P 50V	[M]
C138	ECUV1E103KBV	0.01 25V	[M]
C139	ECA1HAK4R7XB	4.7 50V	[M]
C141	ECA1HAK010XB	1 50V	[M]
C142	ECA1HAK010XB	1 50V	[M]
C143	ECJ1VB1H472K	4700P 50V	[M]
C144	ECJ1VB1H472K	4700P 50V	[M]
C147	ECJ1VB1H102K	1000P 50V	[M]
C148	ECUV1E103KBV	0.01 25V	[M]
C149	ECUV1E104ZFV	0.1 25V	[M]
C202	ECJ1VC1H221J	220P 50V	[M]
C203	ECJ1VB1H102K	1000P 50V	[M]
C204	ECUV1H101JCV	100P 50V	[M]
C205	ECA1HAK2R2XB	2.2 50V	[M]
C206	ECA1HAK2R2XB	2.2 50V	[M]
C207	ECA1HAK2R2XB	2.2 50V	[M]
C208	ECA1CAK100XB	10 16V	[M]
C209	ECA1CAK100XB	10 16V	[M]
C210	ECJ1VB1H102K	1000P 50V	[M]
C211	ECQB1H392JF3	3900P 50V	[M]
C212	ECQV1H154JZ3	0.15 50V	[M]
C213	ECQV1H124JZ3	0.12 50V	[M]
C214	ECA1HAK2R2XB	2.2 50V	[M]
C215	ECQB1H222JF3	2200P 50V	[M]
C216	ECQV1H563JM3	0.056 50V	[M]
C217	ECQB1H393JF3	0.039 50V	[M]
C218	ECQB1H393JF3	0.039 50V	[M]
C219	ECA1EAK330XB	33 25V	[M]
C220	ECA1HAK4R7XB	4.7 50V	[M]
C221	ECQV1H104JZ3	0.1 50V	[M]
C221	ECUV1E104ZFV	0.1 25V	[M]
C225	ECQV1H474JZ3	0.47 50V	[M]
C251	F1D1H102A012	1000P 50V	[M]
C252	ECQV1H104JZ3	0.1 50V	[M]
C253	ECQV1H104JZ3	0.1 50V	[M]
C254	ECA1CAK100XB	10 16V	[M]
C255	F1D1H473A012	0.047 50V	[M]
C257	ECUV1E473KBV	0.047 25V	[M]
C258	ECA1HAK2R2XB	2.2 50V	[M]
C259	F1D1H1040002	0.1 50V	[M]
C261	ECUV1E103KBV	0.01 25V	[M]
C262	ECUV1E103KBV	0.01 25V	[M]
C301	ECJ1VB1H102K	1000P 50V	[M]
C302	ECJ1VB1H102K	1000P 50V	[M]
C304	ECJ1VB1H102K	1000P 50V	[M]
C307	ECJ1VC1H221J	220P 50V	[M]
C308	ECJ1VC1H221J	220P 50V	[M]
C309	ECA1CAK220XB	22 16V	[M]
C310	ECA1HAK010XB	1 50V	[M]
C311	ECUV1E103KBV	0.01 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C313	ECJ1VC1H101K	100P 50V	[M]
C314	ECJ1VC1H101K	100P 50V	[M]
C315	ECJ1VC1H101K	100P 50V	[M]
C316	ECJ1VC1H101K	100P 50V	[M]
C317	ECJ1VC1H101K	100P 50V	[M]
C318	ECJ1VC1H101K	100P 50V	[M]
C350	ECUV1E103KBV	0.01 25V	[M]
C351	ECJ1VC1H470J	47 50V	[M]
C352	ECJ1VC1H470J	47 50V	[M]
C353	ECA1CAK101XB	100 16V	[M]
C354	ECA1HAK2R2XB	2.2 50V	[M]
C355	ECA1CAK470XB	47 16V	[M]
C356	ECA1HAK4R7XB	4.7 50V	[M]
C357	ECA1AAK470XB	47 10V	[M]
C358	ECA1CAK470XB	47 16V	[M]
C359	ECA1HAK3R3XB	3.3 50V	[M]
C402	ECJ1VC1H221J	220P 50V	[M]
C403	ECJ1VB1H102K	1000P 50V	[M]
C404	ECUV1H101JCV	100P 50V	[M]
C405	ECA1HAK2R2XB	2.2 50V	[M]
C406	ECA1HAK2R2XB	2.2 50V	[M]
C407	ECA1HAK2R2XB	2.2 50V	[M]
C408	ECA1CAK100XB	10 16V	[M]
C409	ECA1CAK100XB	10 16V	[M]
C410	ECJ1VB1H102K	1000P 50V	[M]
C411	ECQB1H392JF3	3900P 50V	[M]
C412	ECQV1H154JZ3	0.15 50V	[M]
C413	ECQV1H124JZ3	0.12 50V	[M]
C414	ECA1HAK2R2XB	2.2 50V	[M]
C415	ECQB1H222JF3	2200P 50V	[M]
C416	ECQV1H563JM3	0.056 50V	[M]
C417	ECQB1H393JF3	0.039 50V	[M]
C418	ECQB1H393JF3	0.039 50V	[M]
C419	ECA1EAK330XB	33 25V	[M]
C420	ECA1HAK4R7XB	4.7 50V	[M]
C421	ECQV1H104JZ3	0.1 50V	[M]
C421	ECUV1E104ZFV	0.1 25V	[M]
C451	F1D1H102A012	1000P 50V	[M]
C452	ECQV1H104JZ3	0.1 50V	[M]
C453	ECQV1H104JZ3	0.1 50V	[M]
C454	ECA1CAK100XB	10 16V	[M]
C455	F1D1H473A012	0.047 50V	[M]
C457	ECUV1E473KBV	0.047 25V	[M]
C458	ECA1HAK2R2XB	2.2 50V	[M]
C459	F1D1H1040002	0.1 50V	[M]
C461	ECUV1E103KBV	0.01 25V	[M]
C462	ECUV1E103KBV	0.01 25V	[M]
C517	ECA1EAM331XB	330 25V	[M]
C521	ECA1CAK100XB	10 16V	[M]
C522	ECA1CAK101XB	100 16V	[M]
C554	ECA1CAK470XB	47 16V	[M]
C555	ECUV1E104ZFV	0.1 25V	[M]
C556	ECUV1H682KBV	6800P 50V	[M]
C600	ECA1HAM470XB	47 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C601	ECBT1H103KB5	0.01 50V	[M]
C602	ECA1CAM102XB	1000 16V	[M]
C604	ECA1HAK4R7XB	4.7 50V	[M]
C605	ECBT1H103KB5	0.01 50V	[M]
C608	ECKR1H103ZF5	0.01 50V	[M]
C625	ECBT1H103KB5	0.01 50V	[M]
C626	ECQE2104KF3	0.1 250V	[M]
C627	ECBT1H103KB5	0.01 50V	[M]
C628	ECBT1H103KB5	0.01 50V	[M]
C629	ECBT1H103KB5	0.01 50V	[M]
C630	ECA1EAM472XE	4700 25V	[M]
C632	ECA1EAK100XB	10 25V	[M]
C633	ECBT1H103KB5	0.01 50V	[M]
C638	ECA1HAKR47XB	0.47 50V	[M]
C639	ECA1CAK470XB	47 16V	[M]
C640	ECA1EAK100XB	10 25V	[M]
C641	ECA1EAK100XB	10 25V	[M]
C642	ECBT1H103KB5	0.01 50V	[M]
C643	ECKR1H223ZF5	0.022 50V	[M]
C644	ECA1VM221B	220 35V	[M]
C645	F1D1C103A004	0.01 16V	[M]
C646	ECA1CAK101XB	100 16V	[M]
C647	ECA1HAK010XB	1 50V	[M]
C701	ECEA0JKA330I	33 6.3V	[M]
C702	ECUV1C104KBV	0.1 16V	[M]
C703	ECEA0JKA101I	100 6.3V	[M]
C704	ECUV1C104KBV	0.1 16V	[M]
C706	ECJ1VB1H272K	2700P 50V	[M]
C707	ECJ1VB1E273K	0.027 25V	[M]
C710	ECUV1H121JCV	120P 50V	[M]
C711	ECUV1C104KBV	0.1 16V	[M]
C712	ECUV1C104KBV	0.1 16V	[M]
C713	ECUV1C104KBV	0.1 16V	[M]
C714	ECEA0JKA101I	100 6.3V	[M]
C715	ECJ1VB1H272K	2700P 50V	[M]
C716	ECJ1VB1H821K	820P 50V	[M]
C717	ECUV1E104ZFV	0.1 25V	[M]
C718	ECUV1A224KBV	0.22 10V	[M]
C721	ECUV1H100JCV	10P 50V	[M]
C722	ECUV1H100JCV	10P 50V	[M]
C723	ECEA1AKA221I	220 10V	[M]
C724	ECUV1C104KBV	0.1 16V	[M]
C725	ECJ1VB1H102K	1000P 50V	[M]
C726	ECJ1VB1H102K	1000P 50V	[M]
C727	ECA1HAK010XI	1 50V	[M]
C728	ECA1HAK010XI	1 50V	[M]
C730	ECUV1E104ZFV	0.1 25V	[M]
C731	ECA0JAK221XI	220 6.3V	[M]
C732	ECEA0JKA221I	220 6.3V	[M]
C733	ECUV1C104KBV	0.1 16V	[M]
C734	ECEA1AKA221I	220 10V	[M]
C735	ECUV1E104ZFV	0.1 25V	[M]
C736	ECUV1E104ZFV	0.1 25V	[M]
C737	ECUV1E104ZFV	0.1 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C738	ECUV1C563KBV	0.056 16V	[M]
C739	ECUV1H222KBV	2200P 50V	[M]
C742	ECJ1VB1E273K	0.027 25V	[M]
C743	ECUV1E104ZFV	0.1 25V	[M]
C744	ECUV1H562KBV	5600P 50V	[M]
C745	ECUV1E104ZFV	0.1 25V	[M]
C747	ECUV1H181JCV	180P 50V	[M]
C749	ECUV1H222KBV	2200P 50V	[M]
C750	ECUV1C104KBV	0.1 16V	[M]
C751	ECUV1C104KBV	0.1 16V	[M]
C752	ECUV1H152KBV	1500P 50V	[M]
C753	ECUV1H471KBV	470P 50V	[M]
C754	ECUV1H471KBV	470P 50V	[M]
C769	ECUV1A224KBV	0.22 10V	[M]
C804	ECUV1H820JCV	82P 50V	[M]
C805	ECUV1H820JCV	82P 50V	[M]
C806	ECJ1VC1H470J	47 50V	[M]
C807	ECJ1VC1H470J	47 50V	[M]
C808	ECJ1VB1H102K	1000P 50V	[M]
C809	ECJ1VB1H102K	1000P 50V	[M]
C810	ECUV1H180JCV	18P 50V	[M]
C811	ECUV1H220JCV	22P 50V	[M]
C812	ECJ1VB1H472K	4700P 50V	[M]
C813	ECJ1VB1H472K	4700P 50V	[M]
C814	ECJ1VB1H102K	1000P 50V	[M]
C815	ECJ1VB1H472K	4700P 50V	[M]
C817	ECJ1VB1H102K	1000P 50V	[M]
C820	ECUV1C104KBV	0.1 16V	[M]
C821	ECUV1E103KBV	0.01 25V	[M]
C822	ECJ1VC1H101K	100P 50V	[M]
C823	ECJ1VB1H331K	330P 50V	[M]
C824	ECJ1VC1H101K	100P 50V	[M]
C825	ECJ1VC1H101K	100P 50V	[M]
C826	ECUV1H221KBV	220P 50V	[M]
C828	ECUV1E103KBV	0.01 25V	[M]
C829	ECUV1E103KBV	0.01 25V	[M]
C830	ECJ1VC1H101K	100P 50V	[M]
C831	ECA1HAK010XB	1 50V	[M]
C832	ECA1HAK010XB	1 50V	[M]
C833	ECA0JAM102XB	1000 6.3V	[M]
C834	ECA0JAM102XB	1000 6.3V	[M]
C835	ECEA0JKA101B	100 6.3V	[M]
C836	ECEA0JKA101B	100 6.3V	[M]
C837	ECJ1VB1H472K	4700P 50V	[M]
C838	ECUV1C104KBV	0.1 16V	[M]
C839	ECEA0JKA470B	47 6.3V	[M]
C840	ECUV1C104KBV	0.1 16V	[M]
C841	ECUV1C104KBV	0.1 16V	[M]
C901	ECEA0JKA470B	47 6.3V	[M]
C902	F1D1H101A012	100P 50V	[M]
C903	F1D1H101A012	100P 50V	[M]
C1101	ECA1HAK010XB	1 50V	[M]
C1102	F1D1H102A012	1000P 50V	[M]
C1103	ECA1CAK101XB	100 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1104	ECFR1C273KR	0.027 16V	[M]
C1105	F1D1H821A012	820P 50V	[M]
C1106	ECA1HAK2R2XB	2.2 50V	[M]
C1107	ECBT1C152KR5	1500P 16V	[M]
C1108	ECA1CAK100XB	10 16V	[M]
C1109	ECA1HAK3R3XB	3.3 50V	[M]
C1121	F1D1H102A012	1000P 50V	[M]
C1122	F1D1C222A002	2200P 16V	[M]
C1123	ECBT1H681KB5	680P 50V	[M]
C1201	ECA1HAK010XB	1 50V	[M]
C1202	F1D1H102A012	1000P 50V	[M]
C1203	ECA1CAK101XB	100 16V	[M]
C1204	ECFR1C273KR	0.027 16V	[M]
C1205	F1D1H821A012	820P 50V	[M]
C1206	ECA1HAK2R2XB	2.2 50V	[M]
C1207	ECBT1H152KB5	1500P 50V	[M]
C1208	ECA1CAK100XB	10 16V	[M]
C1209	ECA1HAK3R3XB	3.3 50V	[M]
C1221	F1D1H102A012	1000P 50V	[M]
C1222	F1D1C222A002	2200P 16V	[M]
C1223	ECBT1H681KB5	680P 50V	[M]
C1301	ECA1HAK0R1XB	0.1 50V	[M]
C1302	ECFR1C333KR	0.033 16V	[M]
C1304	ECA1HAK4R7XB	4.7 50V	[M]
C1305	ECA1CAK330XB	33 16V	[M]
C1307	ECA1AAK221XB	220 10V	[M]
C1308	ECA1CAK220XB	22 16V	[M]
C1309	ECA1CAK100XB	10 16V	[M]
C1311	ECA1CAK470XB	47 16V	[M]
C1312	F1D1C332A002	3300P 16V	[M]
C1314	F1D1C222A002	2200P 16V	[M]
C1315	F1D1C222A002	2200P 16V	[M]
C1316	F1D1H102A012	1000P 50V	[M]
C1317	F1D1H102A012	1000P 100V	[M]
C1318	ECQV1H473JZ3	0.047 50V	[M]
C1319	ECA1CAK101XB	100 16V	[M]
C1320	ECA1HAK010XB	1 50V	[M]
C1321	F0A2A472A010	4700P 100V	[M]
C1322	F0A2A102A010	1000P 100V	[M]
C1323	ECEA1HKN2R2B	2.2 50V	[M]
C1324	ECA1CAK470XB	47 16V	[M]
C1325	F1D1C103A004	0.01 16V	[M]
C1326	ECA1CAK100XB	10 16V	[M]
		CHIP JUMPER	
RJ701	ERJ3GEY0R00V	0 1/16W	[M]
RJ702	ERJ3GEY0R00V	0 1/16W	[M]
RJ703	ERJ3GEY0R00V	0 1/16W	[M]
RJ709	ERJ3GEY0R00V	0 1/16W	[M]
RJ710	ERJ3GEY0R00V	0 1/16W	[M]
RJ711	ERJ3GEY0R00V	0 1/16W	[M]
RJ712	ERJ3GEY0R00V	0 1/16W	[M]
RJ713	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
RJ714	ERJ3GEY0R00V	0 1/16W	[M]
RJ715	ERJ3GEY0R00V	0 1/16W	[M]
RJ716	ERJ3GEY0R00V	0 1/16W	[M]
RJ722	ERJ3GEY0R00V	0 1/16W	[M]
RJ723	ERJ3GEY0R00V	0 1/16W	[M]
RJ724	ERJ3GEY0R00V	0 1/16W	[M]
RJ726	ERJ3GEY0R00V	0 1/16W	[M]
RJ727	ERJ3GEY0R00V	0 1/16W	[M]
RJ728	ERJ3GEY0R00V	0 1/16W	[M]
RJ731	ERJ3GEY0R00V	0 1/16W	[M]
RJ732	ERJ3GEY0R00V	0 1/16W	[M]
RJ734	ERJ3GEY0R00V	0 1/16W	[M]
		TEST JUMPER	
TJ701	EYF8CU	TEST JUMPER	[M]

20.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX0843-1	PACKING CASE	[M]
P2	RPNX0133	POLYFOAM	[M]
P3	RPHV0001	MIRAMAT SHEET	[M]
		ACCESSORIES	
A1	EUR648260	REMOTE CONTROL	[M]
A1-1	UR64EC2337A	R/C BATTERY COVER	[M]
A2	RJA0019-2K	AC CORD (SF)	[M]EG E ⚠
A2	VJA0733	AC CORD (SF)	[M]EB ⚠
A3	RQT6096-B	O/I BOOK (En)	[M]EB E
A3	RQT6097-E	O/I BOOK (Sp/Ru/Cz/Po)	[M]E
A3	RQT6098-D	O/I BOOK (Ge/It/Fr)	[M]EG
A3	RQT6099-H	O/I BOOK (Du/Da/Sw)	[M]EG
A4	RSA0007-L	FM ANTENNA WIRE	[M]
A5	RSA0033A	AM LOOP ANTENNA	[M]
A6	K1YZ02000013	ANT ADAPTER	[M]EB

20.6. Packaging

ACCESSORIES CASE

A1 : REMOTE CONTROL

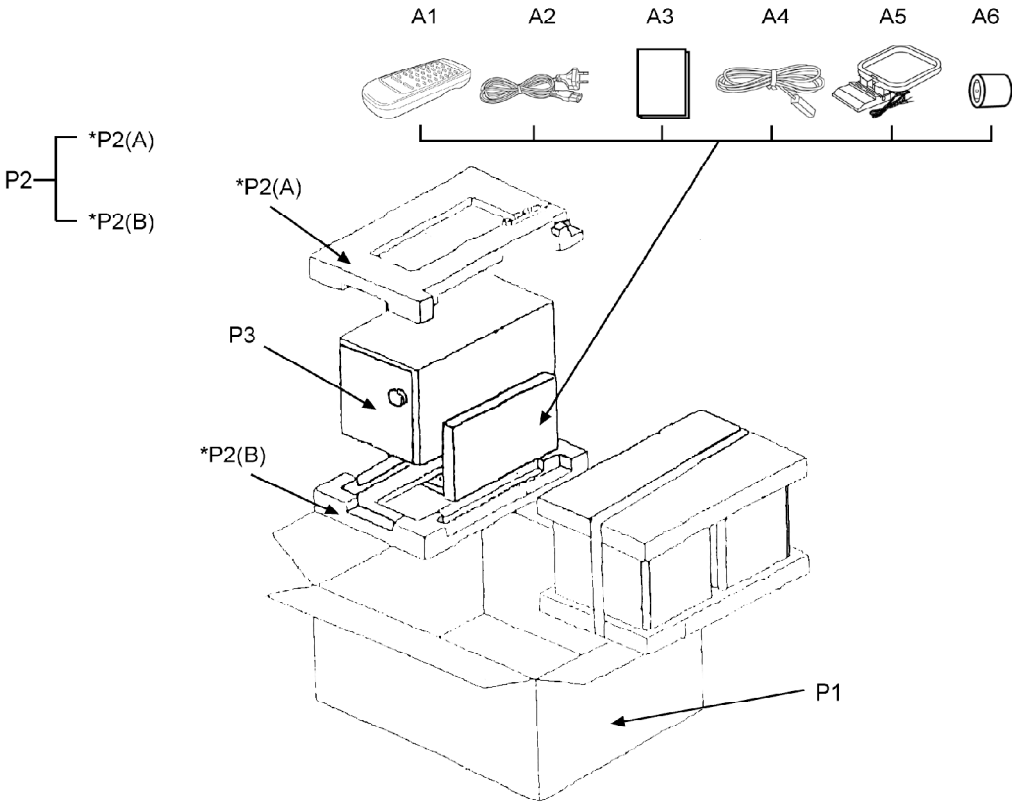
A2 : AC CORD

A3 : O/I BOOK

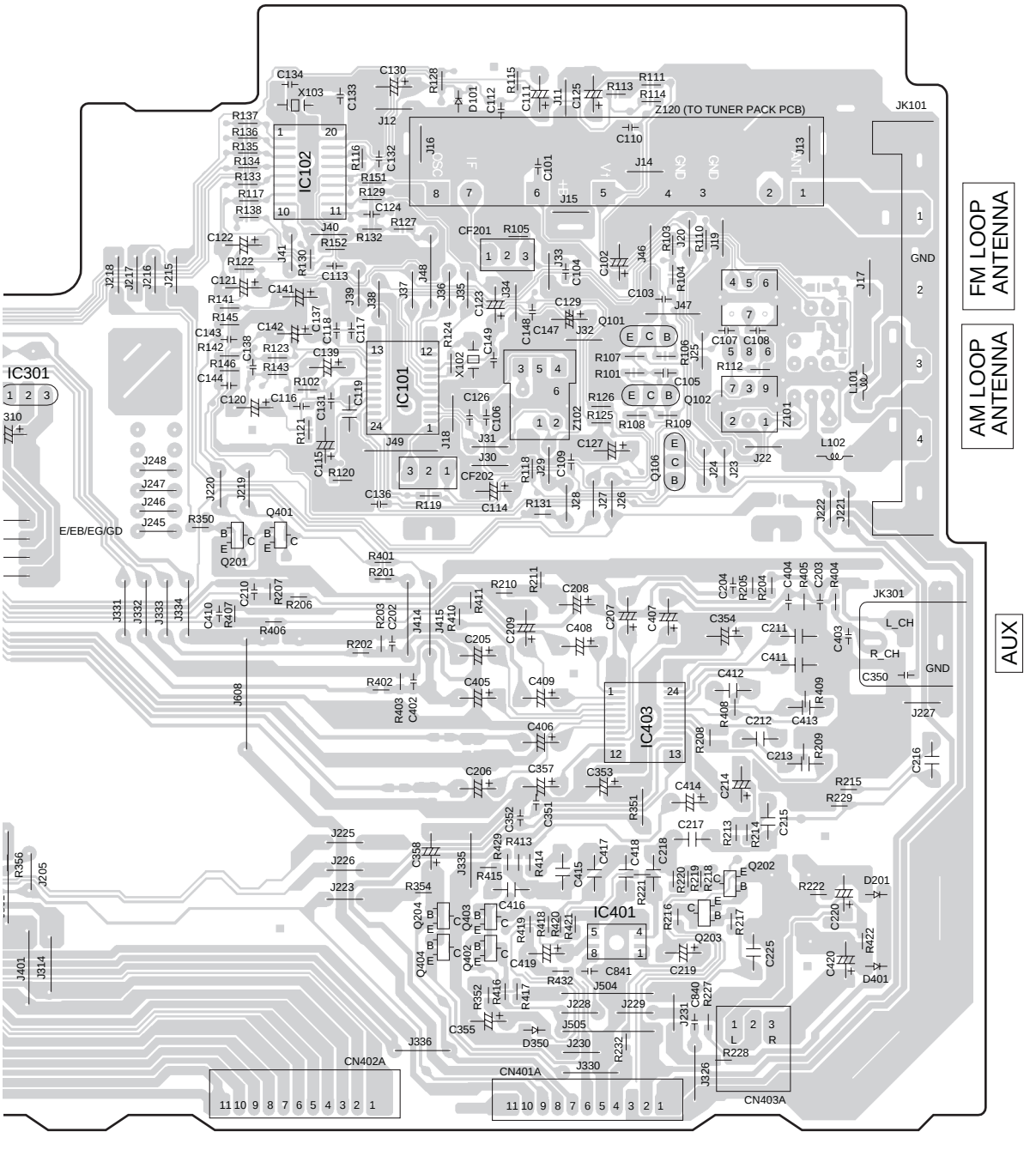
A4 : FM ANTENNA WIRE

A5 : AM LOOP ANTENNA

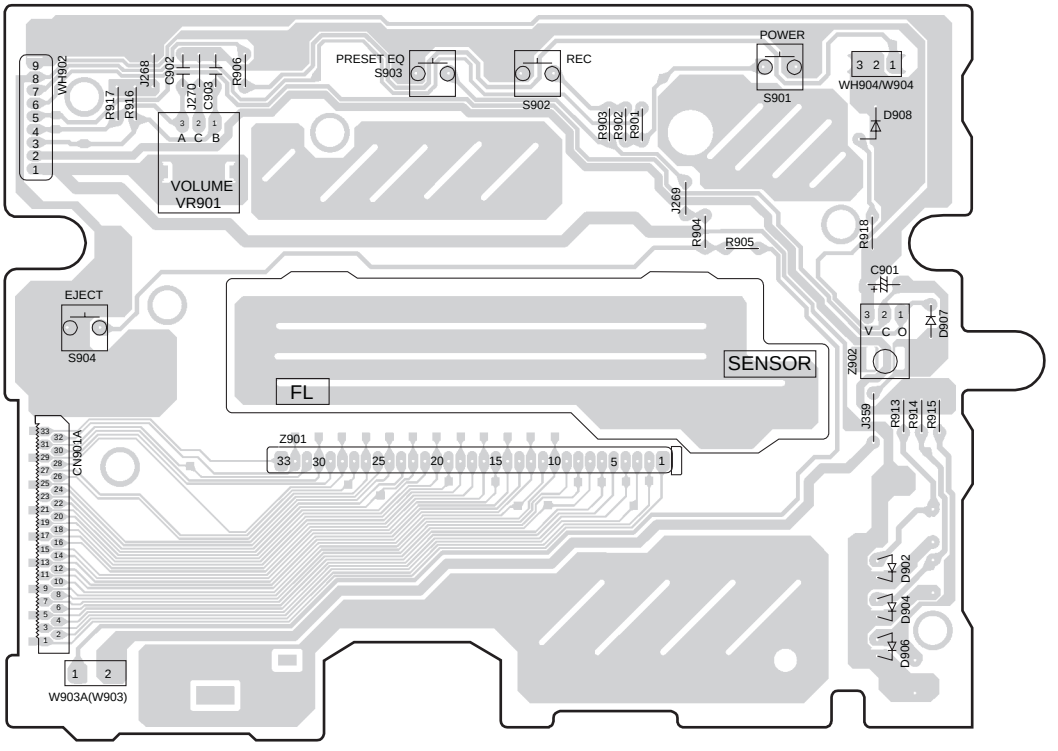
A6 : ANT ADAPTER



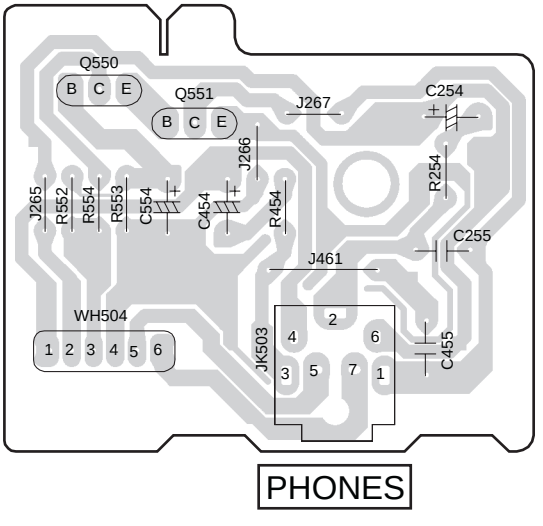
/ Printed in Singapore / M020100001FLE/H/C/E/J


G
H
I
J
K
L
M
Z120 (TO TUNER PACK PCB)
JK101
FM LOOP ANTENNA
AM LOOP ANTENNA
AUX
JK301
L_CH
R_CH
GND
IC102
IC101
IC403
IC401
IC301
CF201
CF202
Q101
Q102
Q106
Q201
Q202
Q203
Q204
Q401
Z101
Z102
L101
L102
CN402A
CN401A
CN403A
E/EB/EG/GD

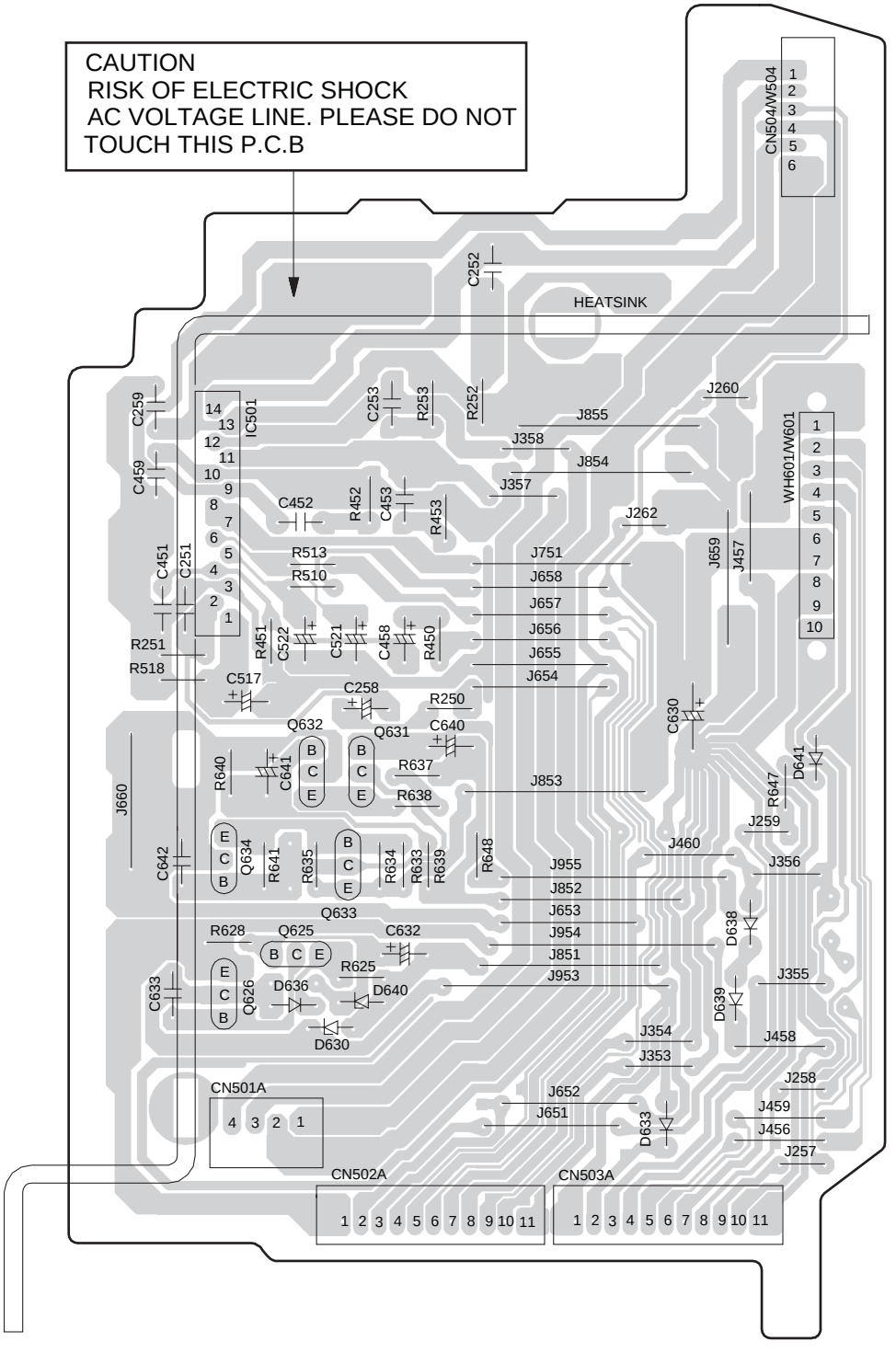
D PANEL P.C.B. (REPV0002A)

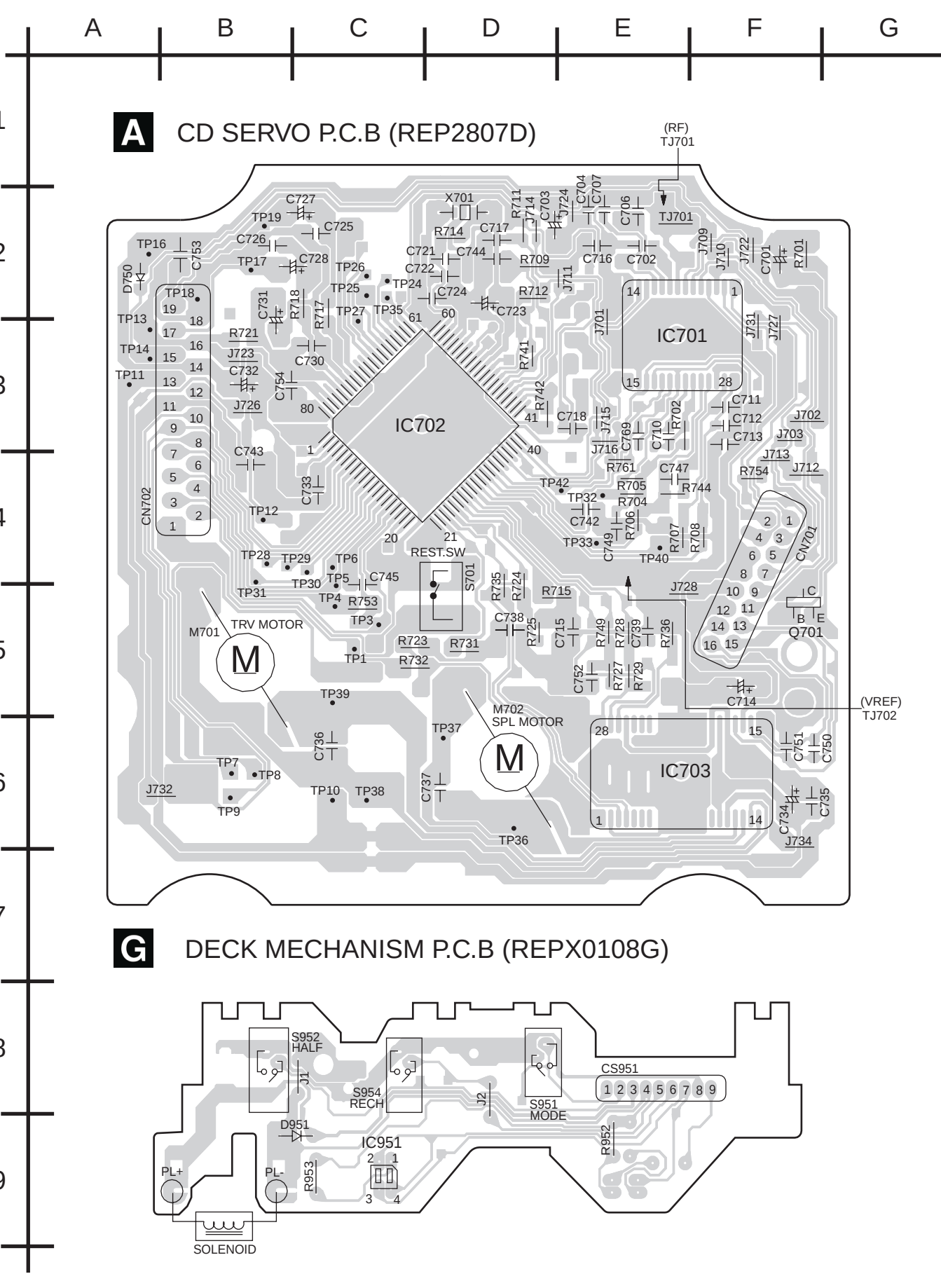


J HEADPHONE P.C.B. (REPV0002A)

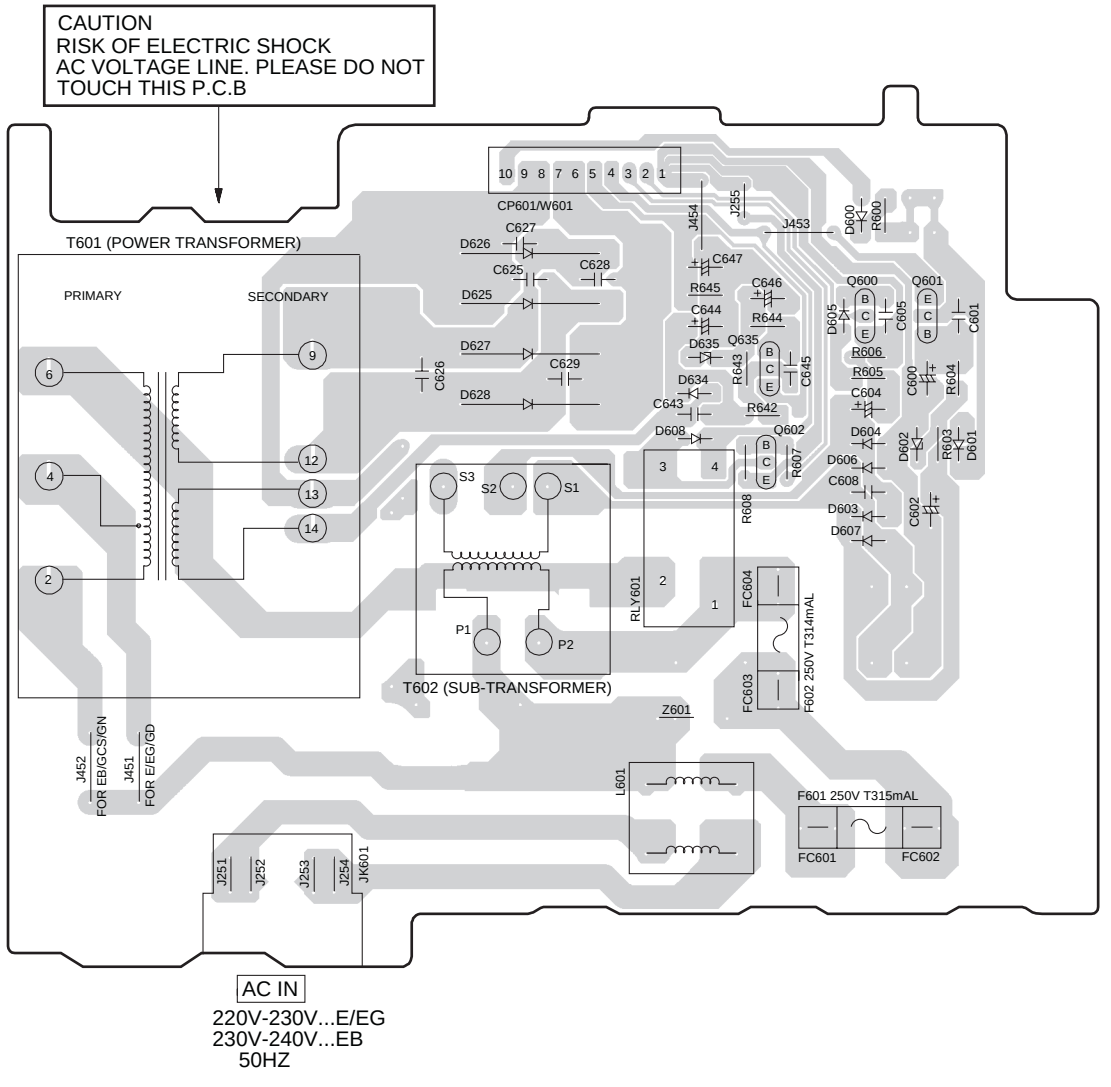


I POWER P.C.B. (REPV0002A)




A
CD SERVO P.C.B (REP2807D)
(RF)
TJ701
TJ701
IC701
IC702
IC703
REST.SW
S701
M701
TRV MOTOR
M702
SPL MOTOR
CN702
CN701
Q701
(VREF)
TJ702
G
DECK MECHANISM P.C.B (REPX0108G)
S952
HALF
S954
RECH
S951
MODE
CS951
1 2 3 4 5 6 7 8 9
IC951
D951
PL+
PL-
SOLENOID

K TRANSFORMER P.C.B. (REPV0002A)

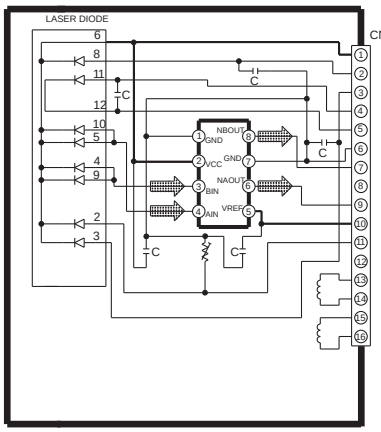


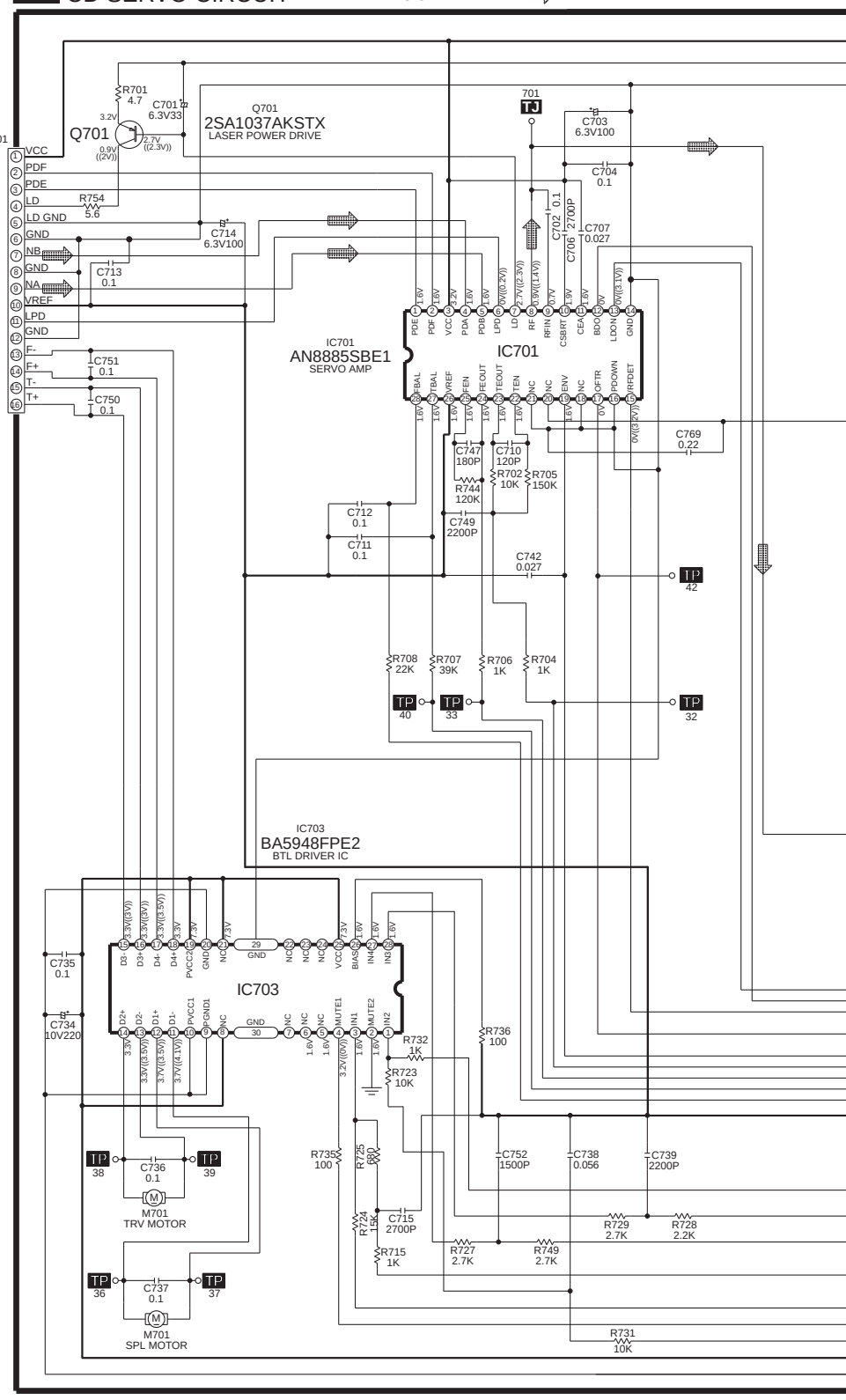
SCHEMATIC DIAGRAM -1

A CD SERVO CIRCUIT

: +B SIGNAL LINE : CD SIGNAL LINE

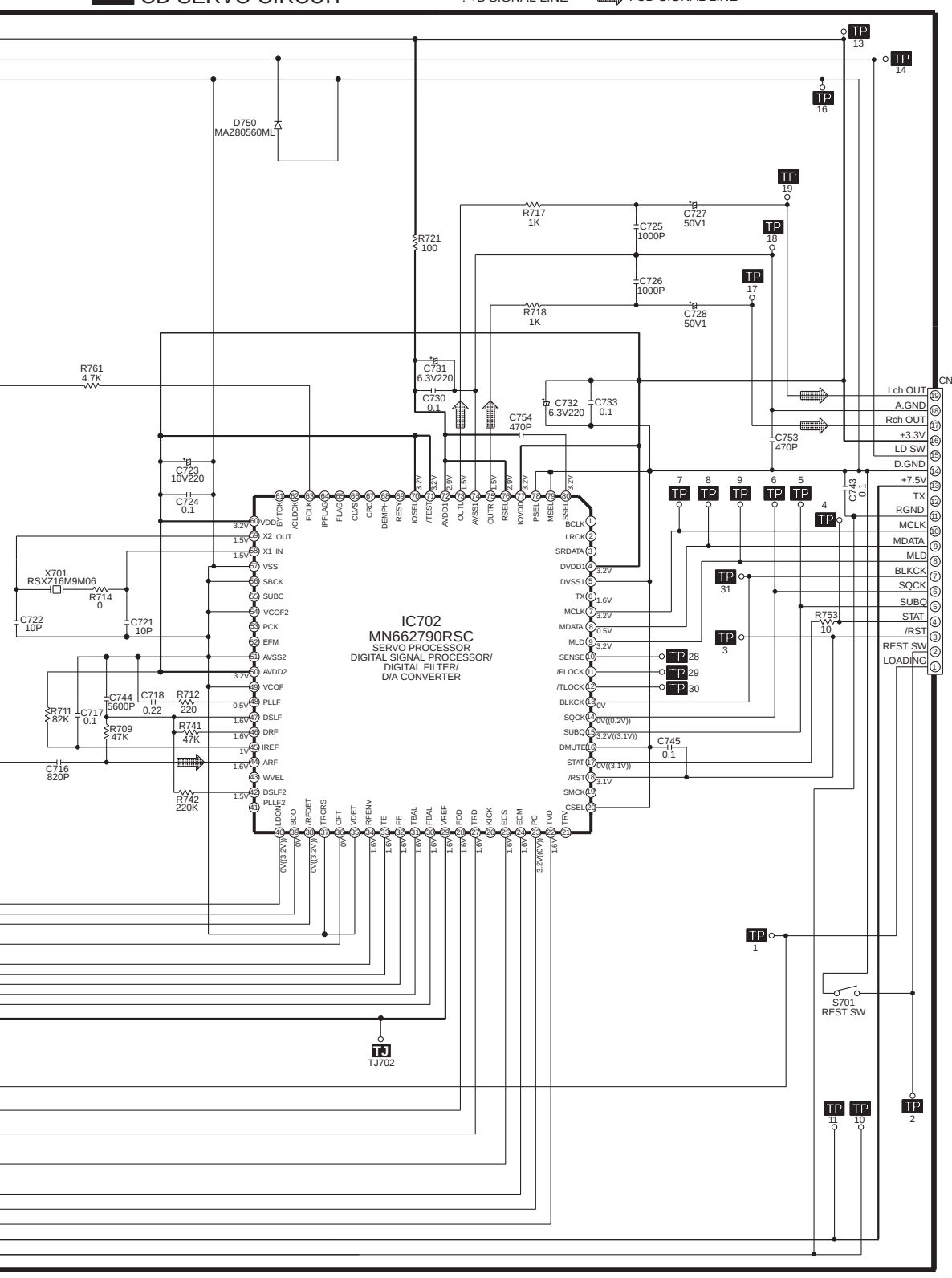
OPTICAL PICKUP CIRCUIT





A CD SERVO CIRCUIT

: +B SIGNAL LINE : CD SIGNAL LINE



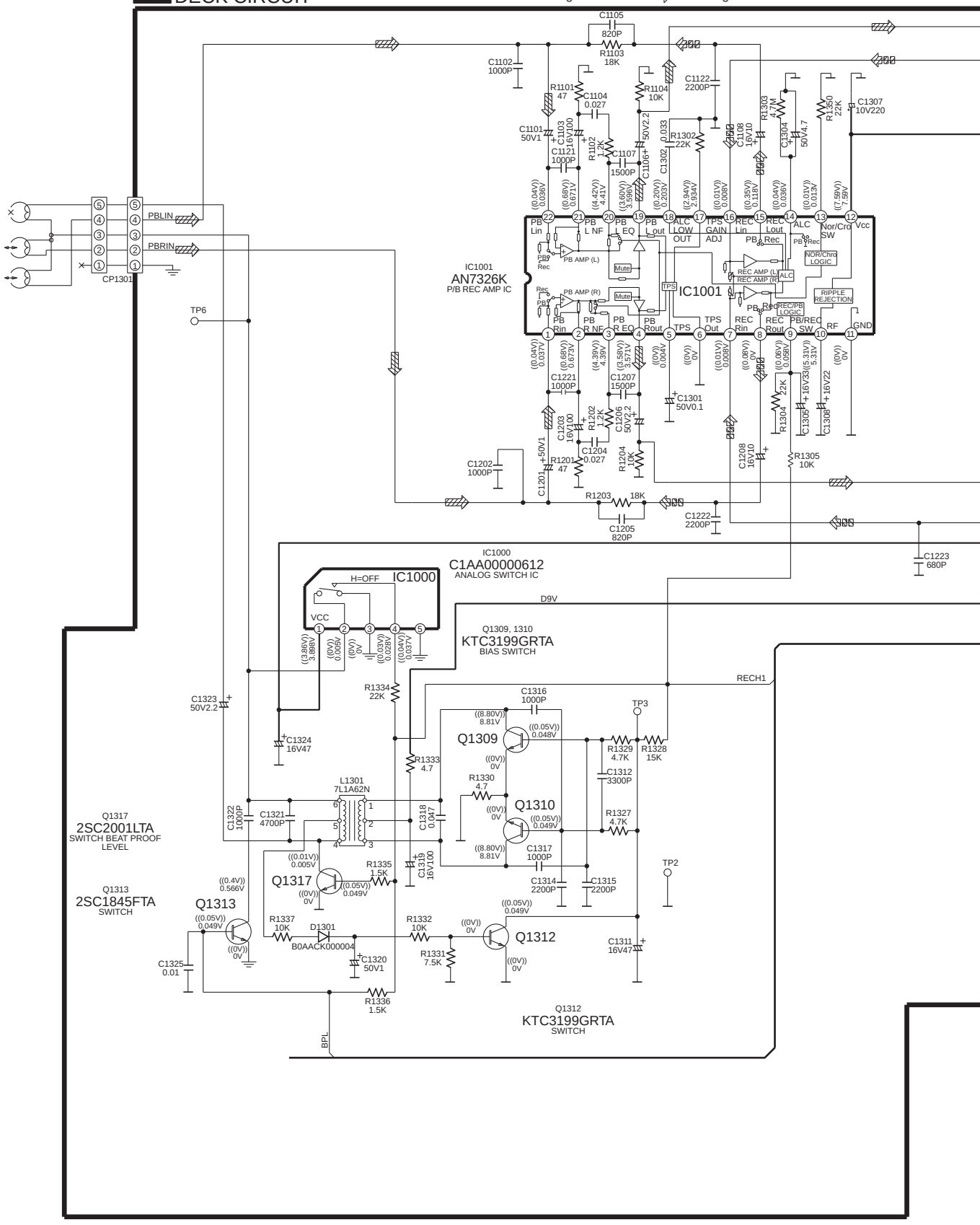
SCHEMATIC DIAGRAM-7

F DECK CIRCUIT

: +B Signal Line

: Playback Signal line

: Rec Signal line



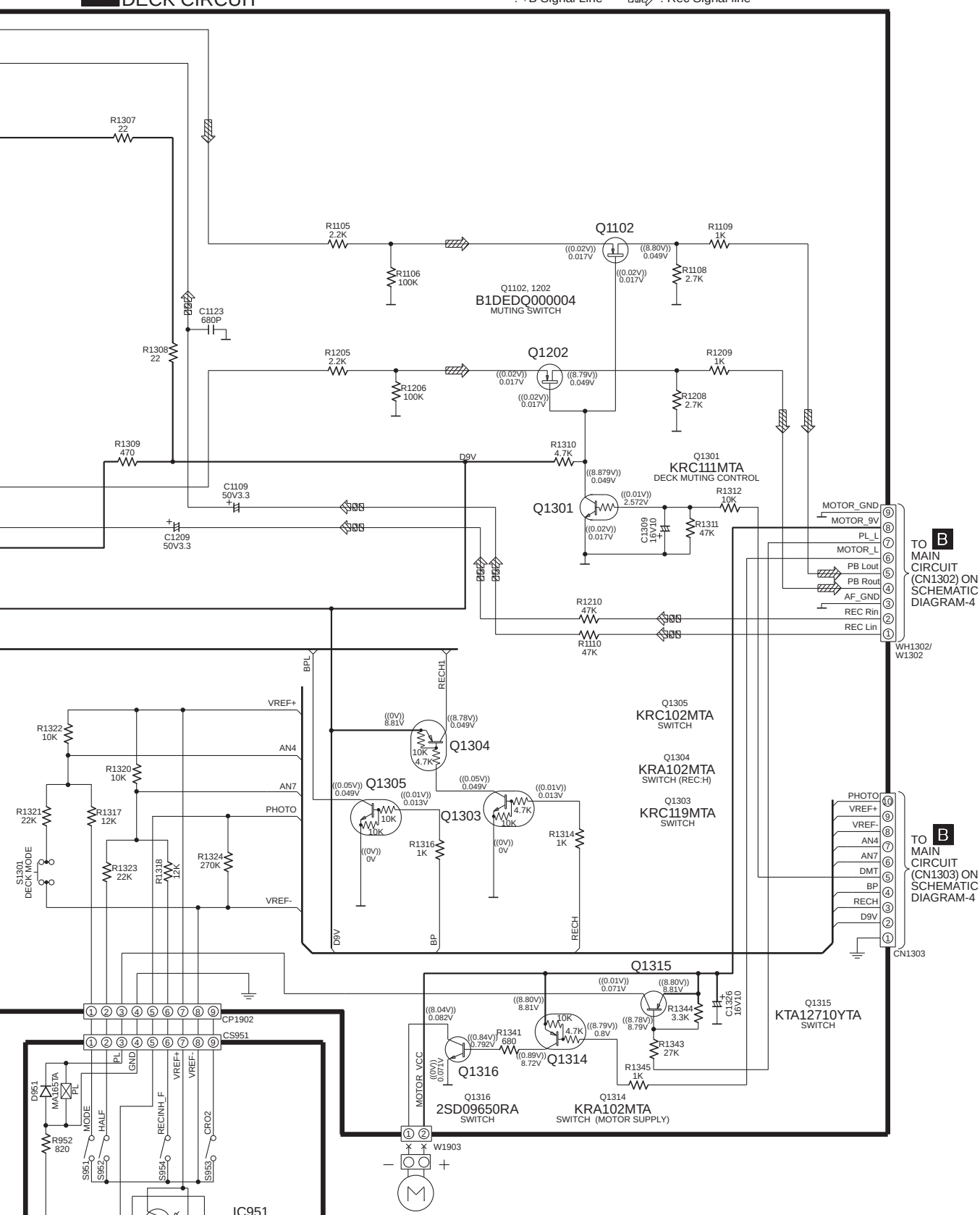
SCHEMATIC DIAGRAM-8

F DECK CIRCUIT

: +B Signal Line

: Playback Signal line

: Rec Signal line

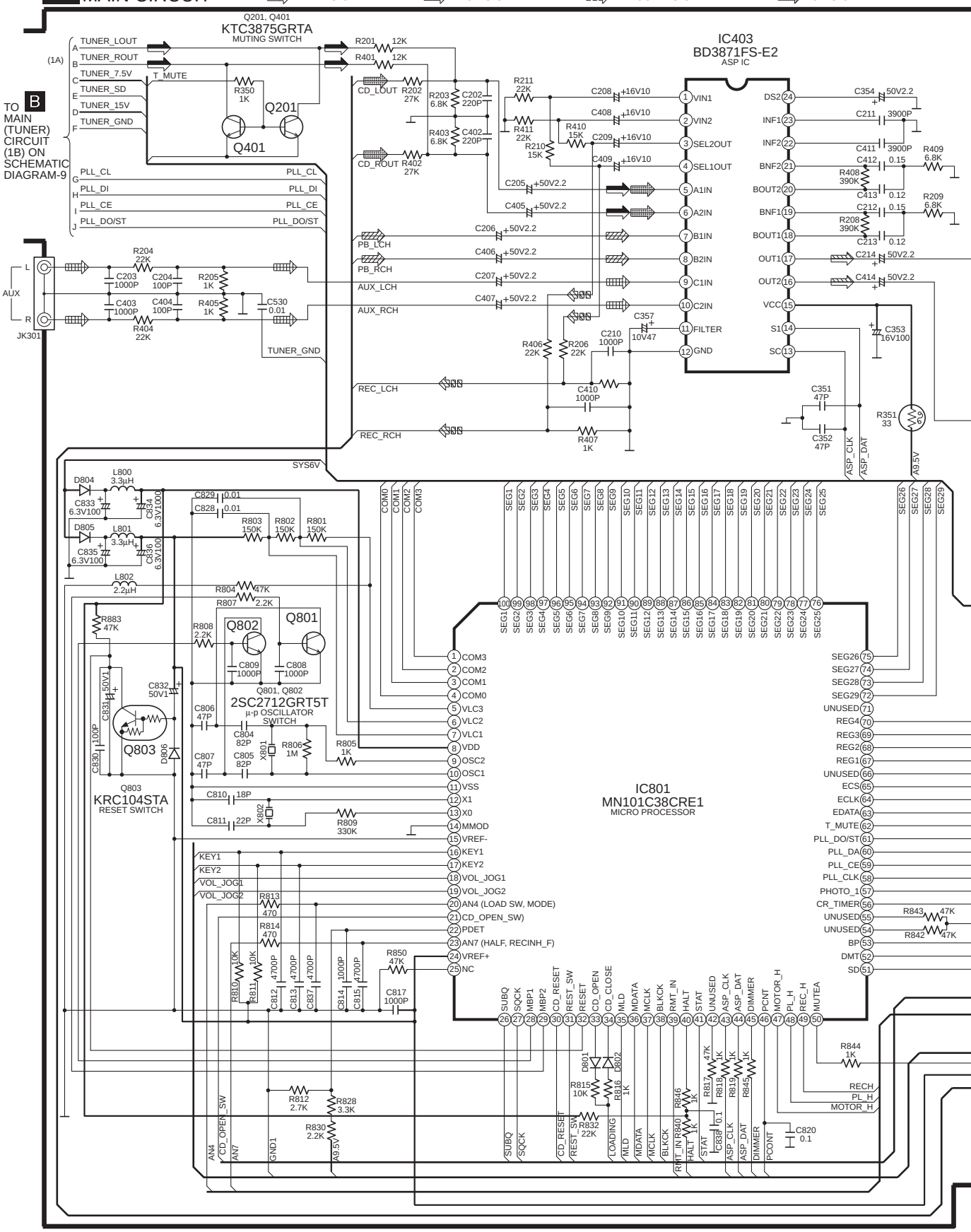


G DECK MECHANISM CIRCUIT

SCHEMATIC DIAGRAM-3

B MAIN CIRCUIT

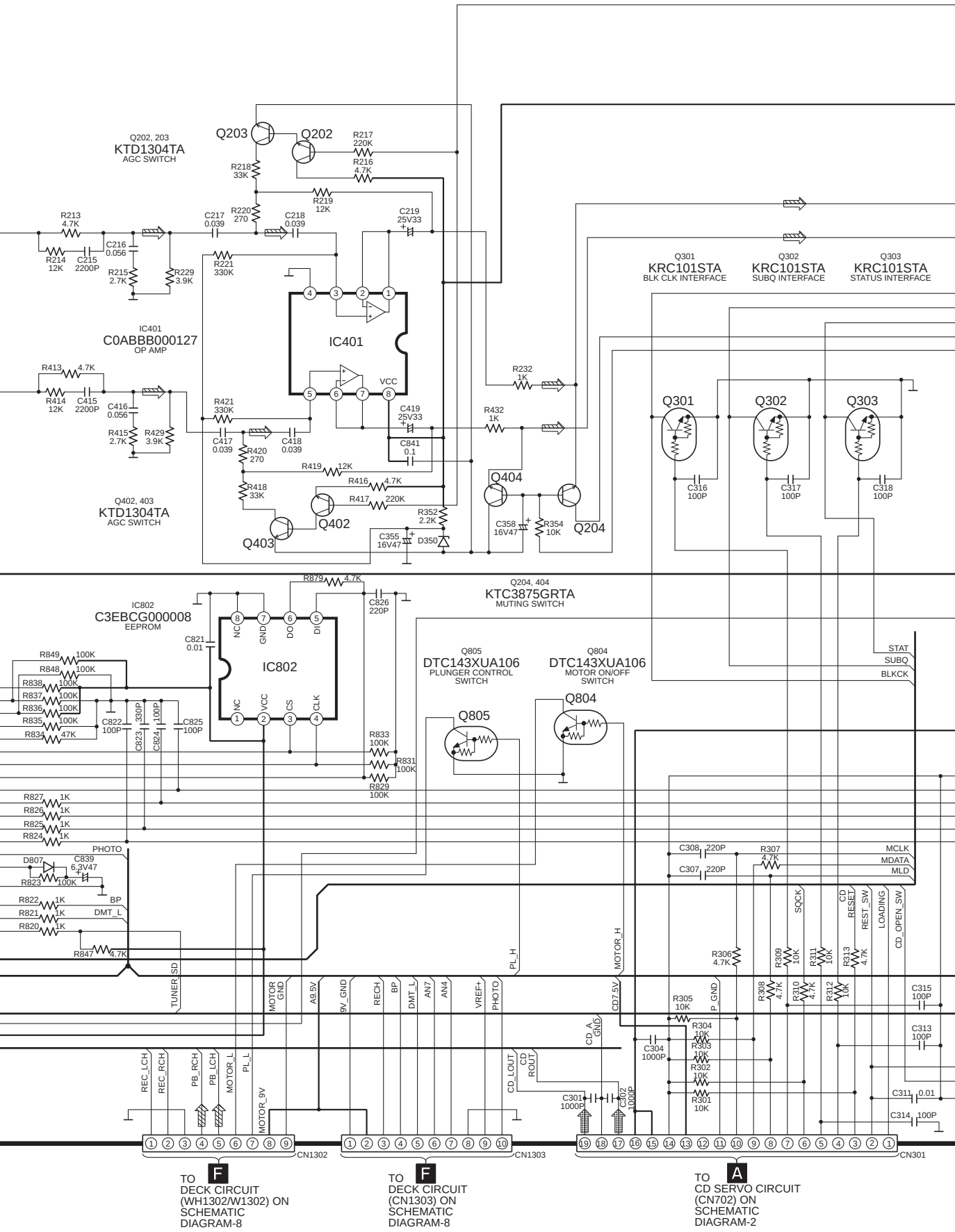
: +B SIGNAL LINE
: MAIN SIGNAL LINE
: FM/AM SIGNAL LINE
: AUX SIGNAL LINE
: PLAYBACK SIGNAL LINE
: RECORD SIGNAL LINE
: CD SIGNAL LINE



SCHEMATIC DIAGRAM-4

B MAIN CIRCUIT

: +B SIGNAL LINE
: MAIN SIGNAL LINE
: PLAYBACK LINE
: CD SIGNAL LINE



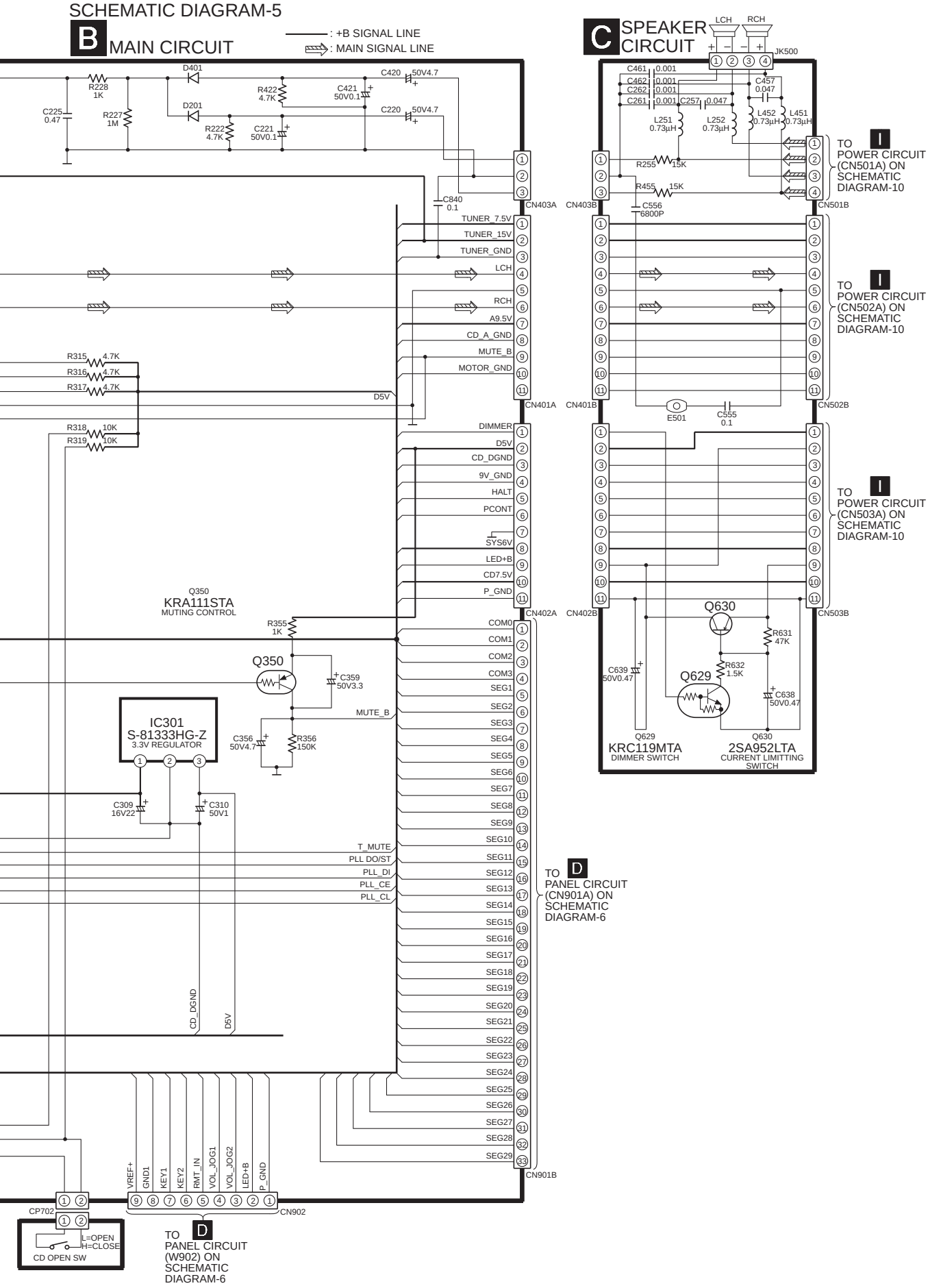
SCHEMATIC DIAGRAM-5

B MAIN CIRCUIT

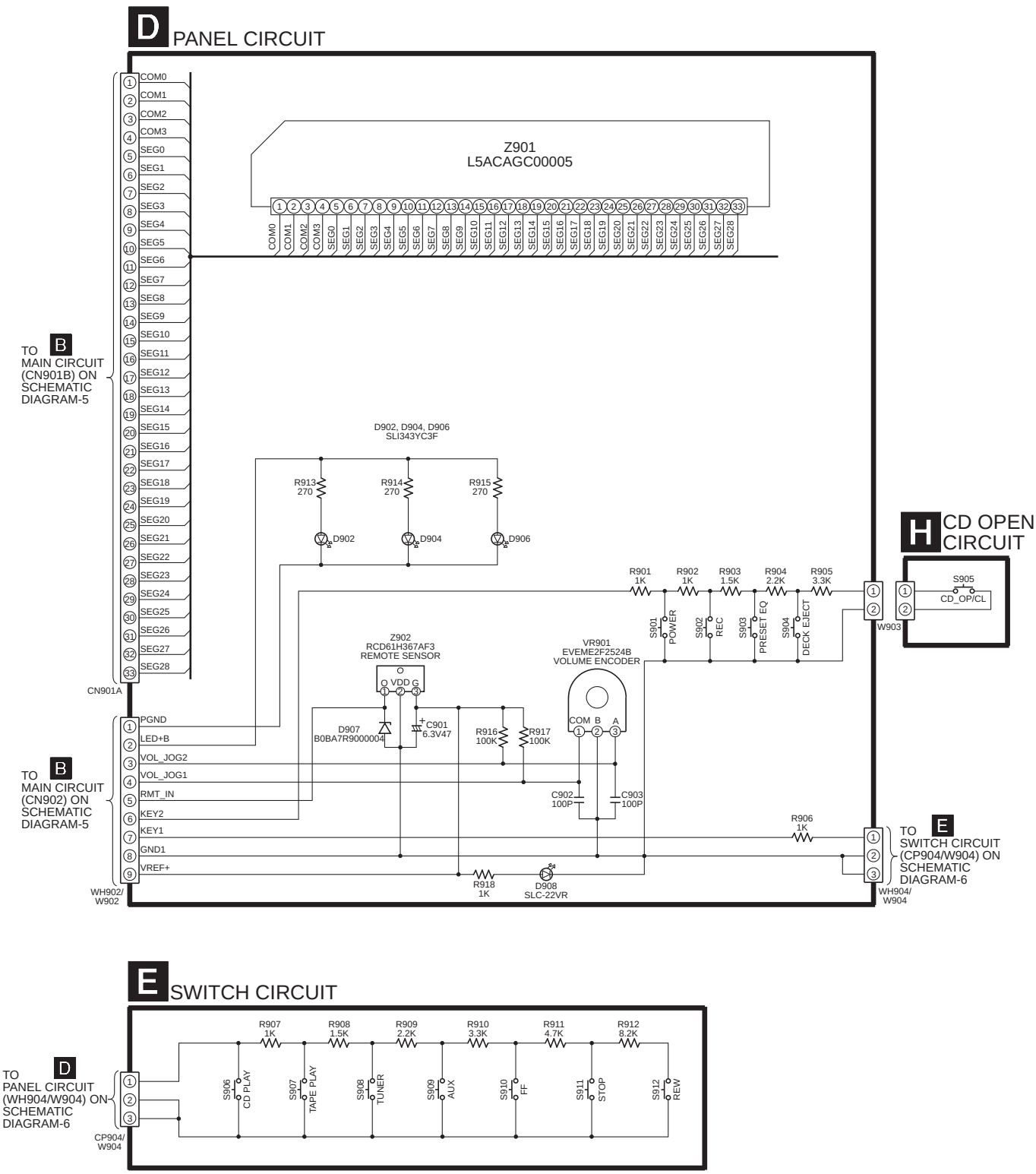
: +B SIGNAL LINE

: MAIN SIGNAL LINE

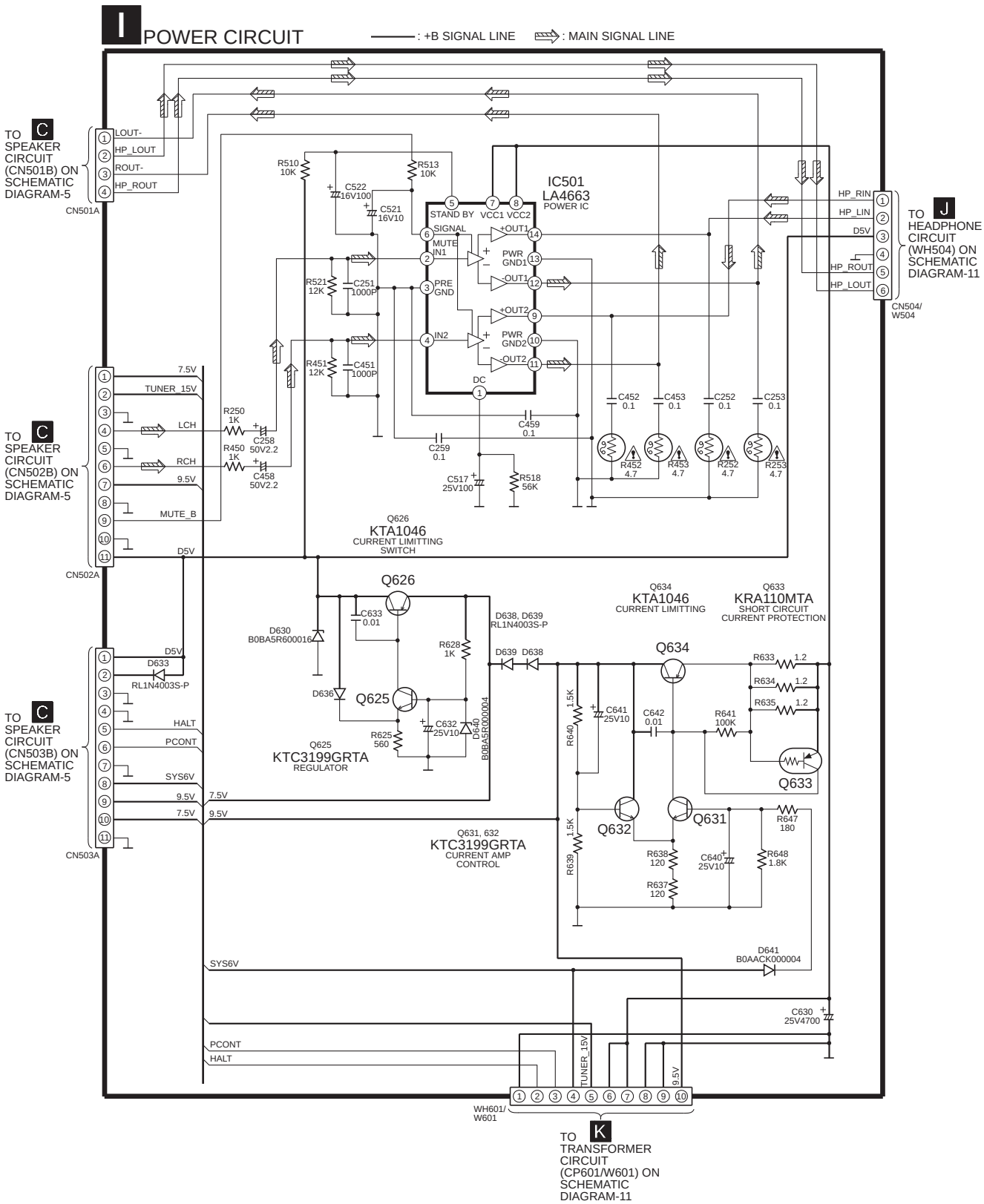
C SPEAKER CIRCUIT



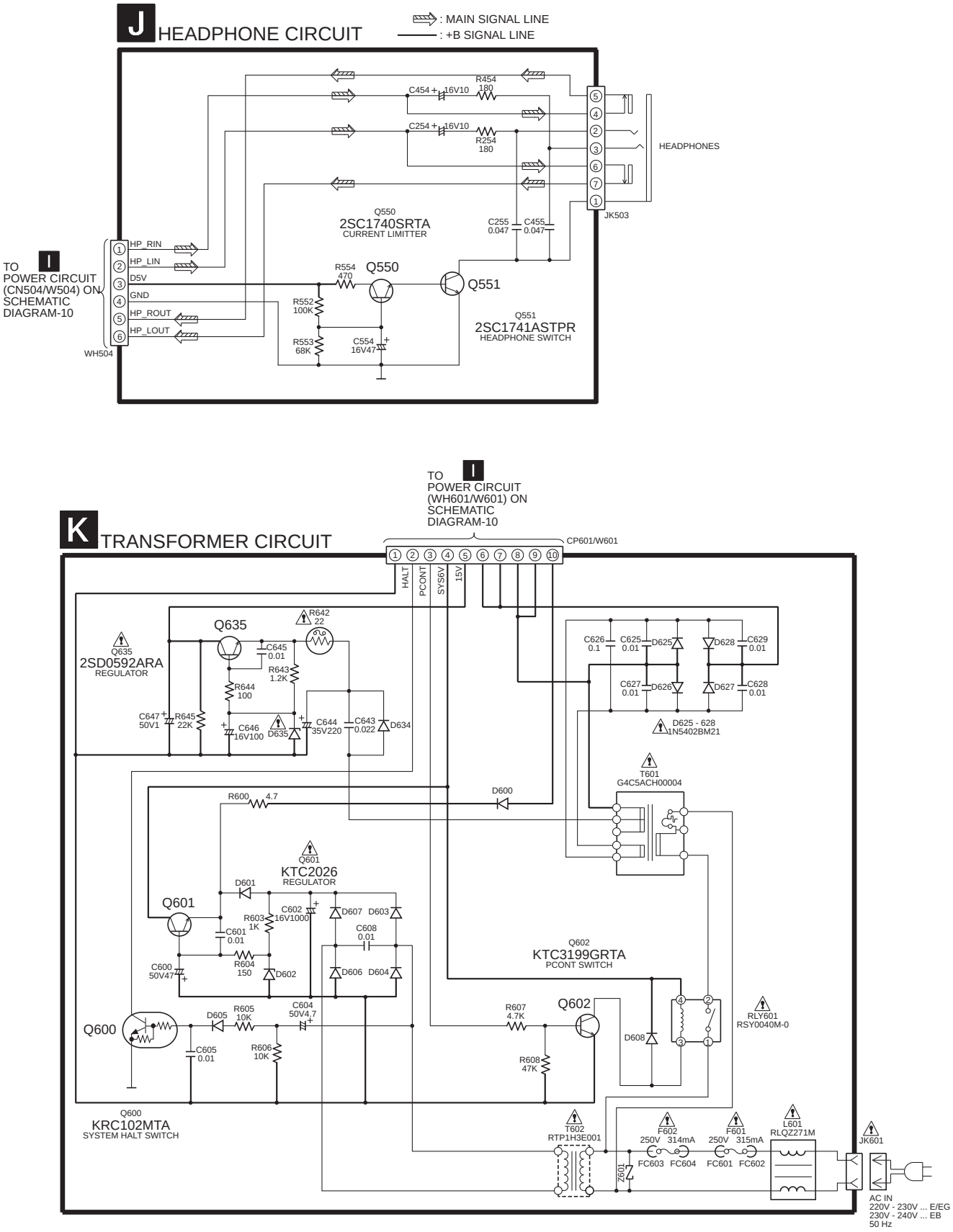
SCHEMATIC DIAGRAM-6



SCHEMATIC DIAGRAM-10



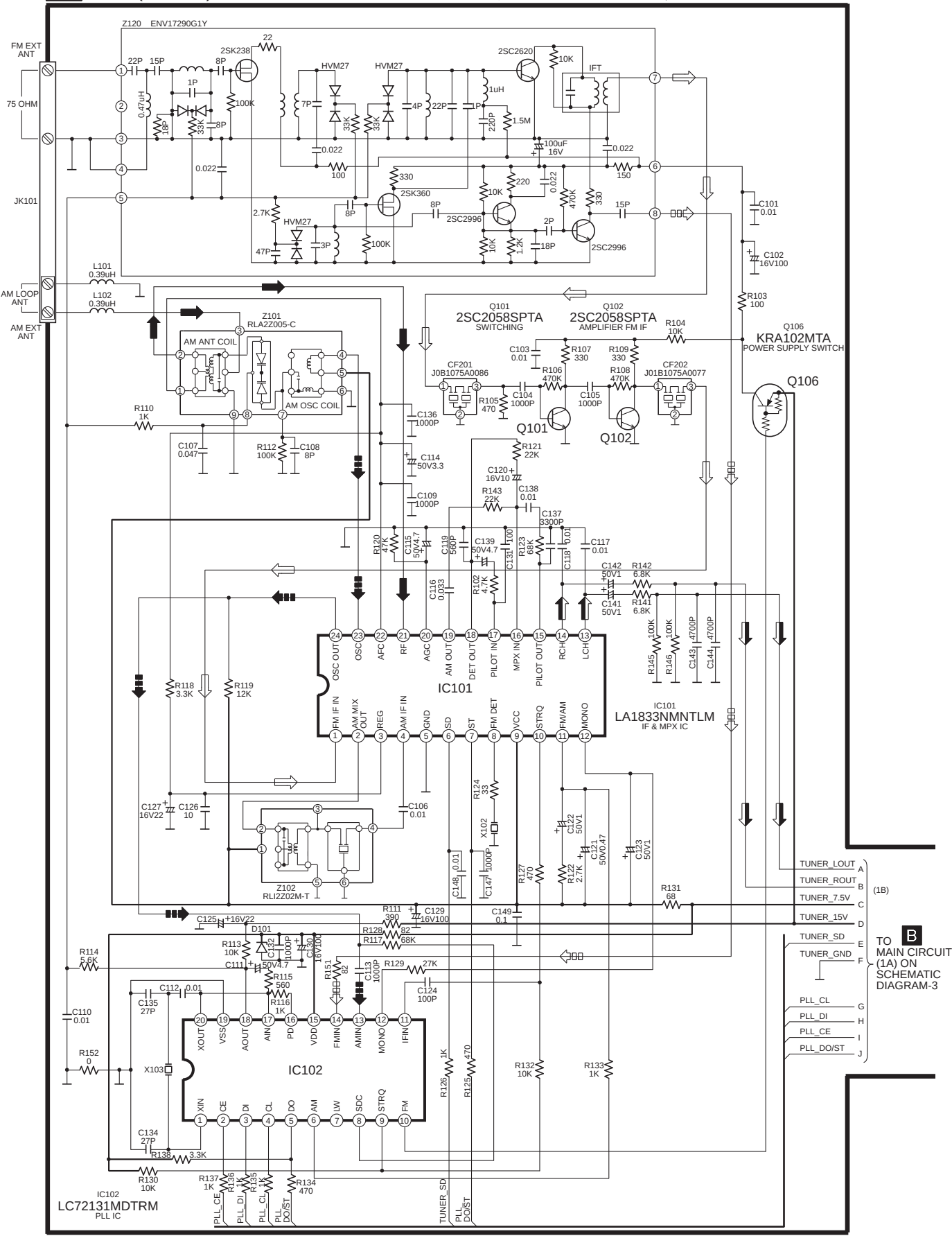
SCHEMATIC DIAGRAM-11

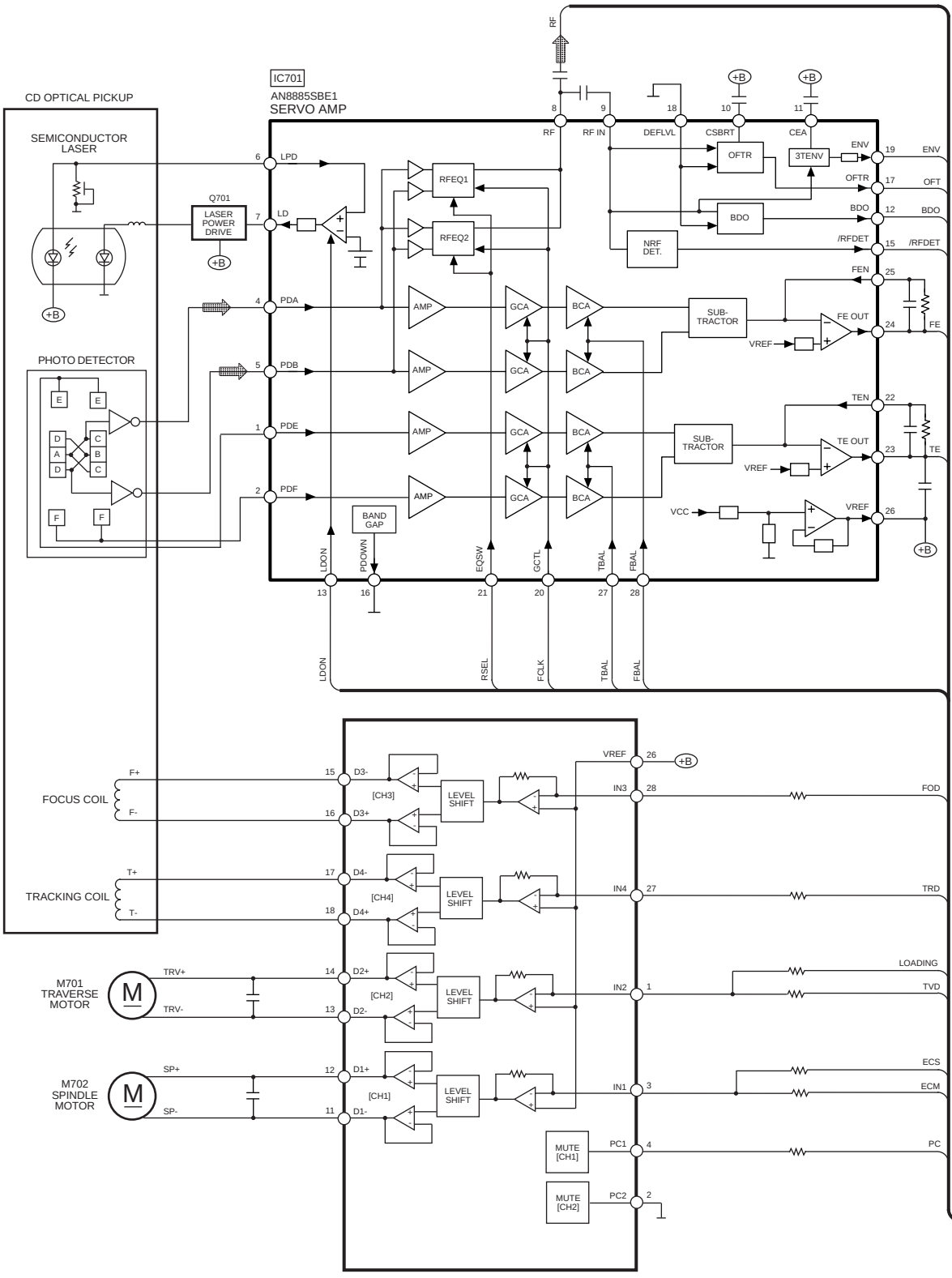


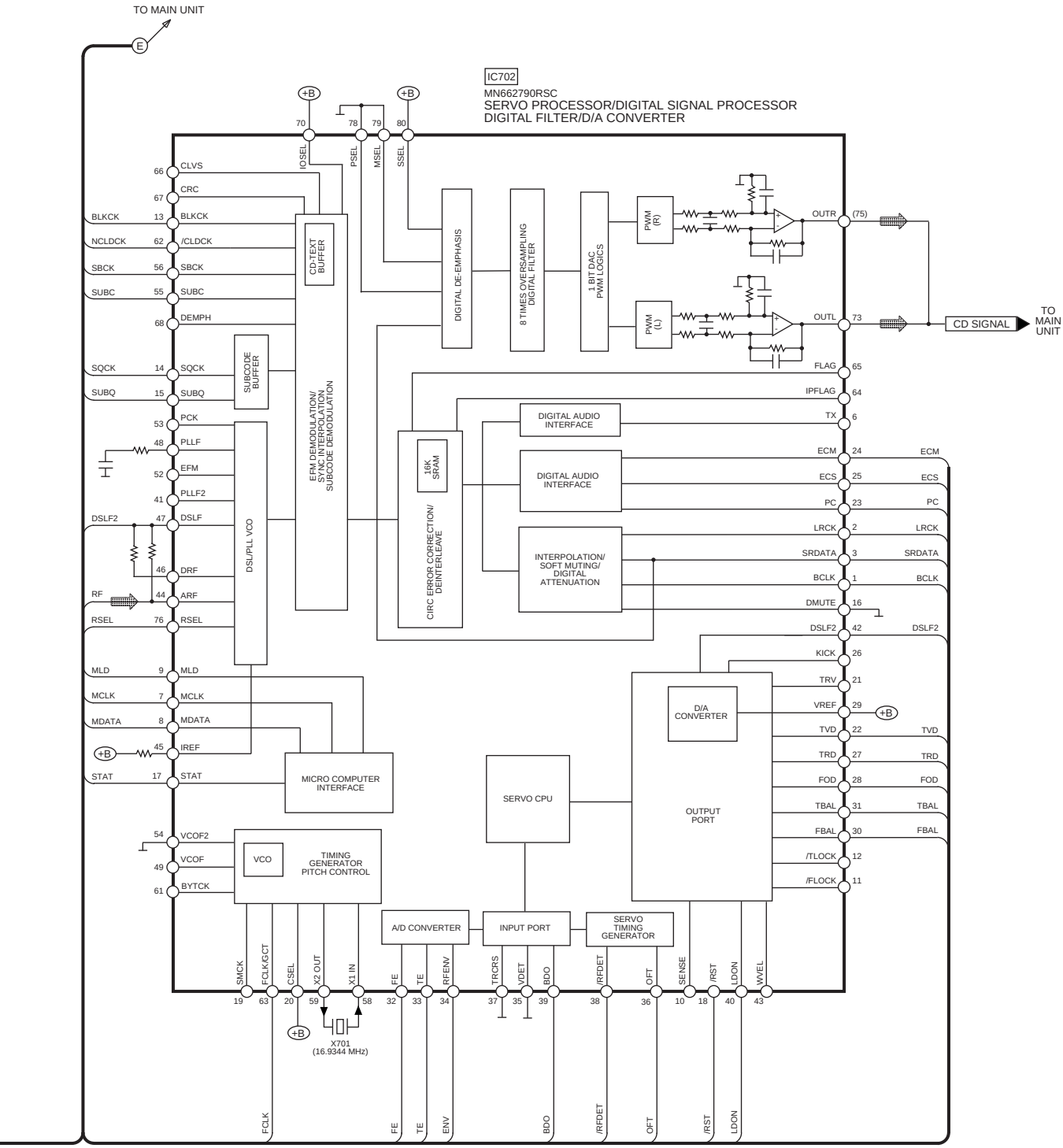
SCHEMATIC DIAGRAM-9

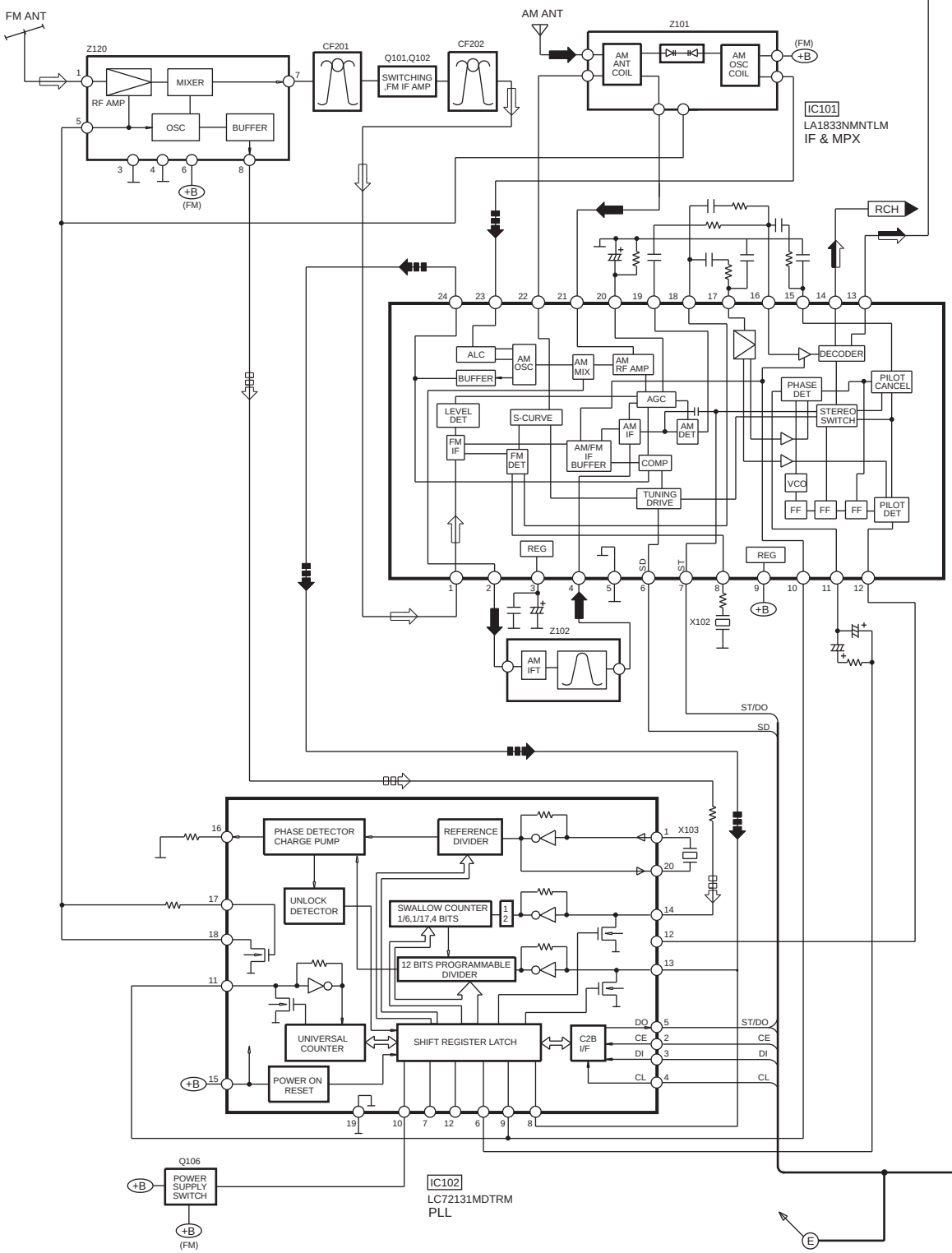
B MAIN (TUNER) CIRCUIT

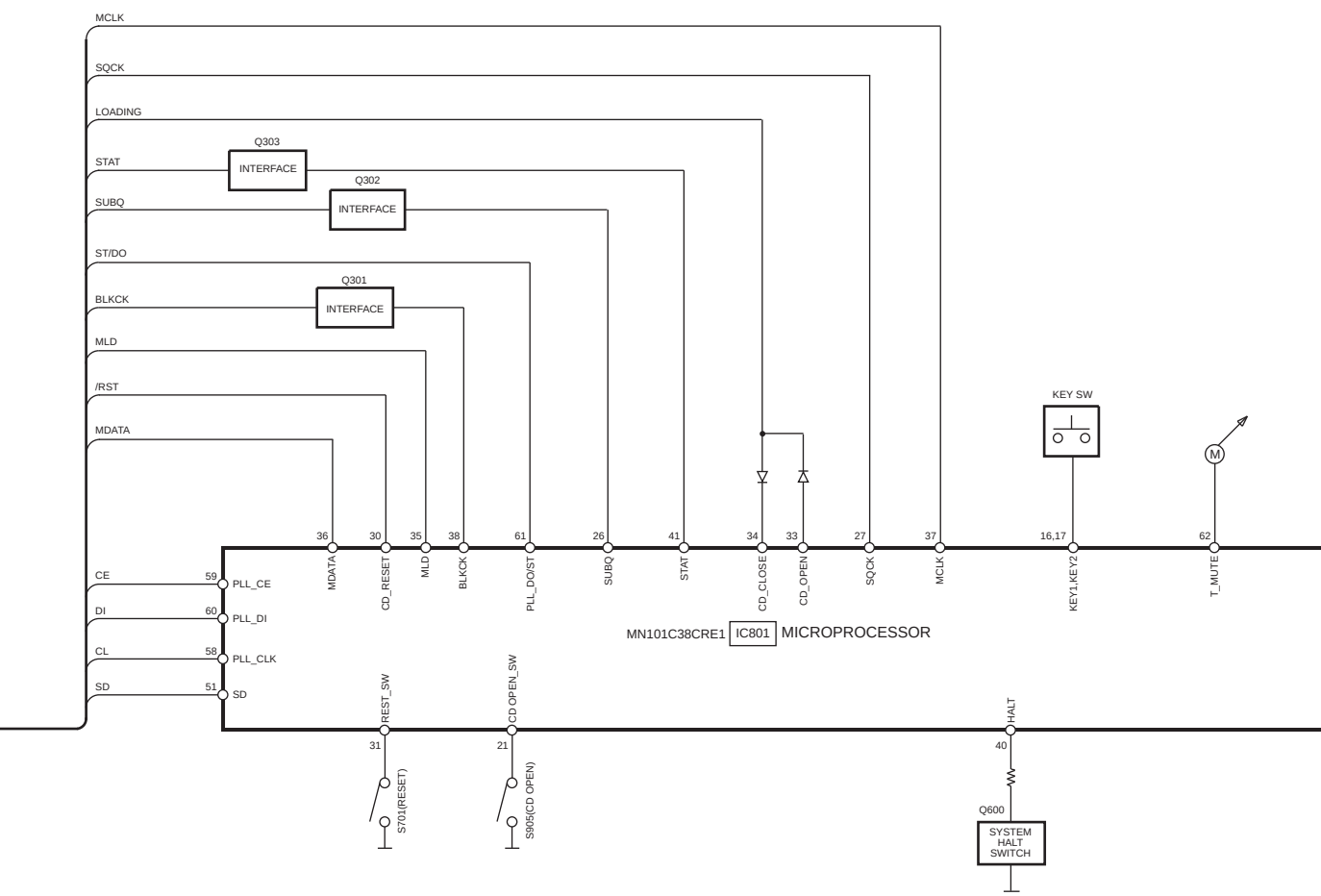
: FM/AM SIGNAL LINE
: +B SIGNAL LINE
: AM SIGNAL LINE
: AM OSC SIGNAL LINE
: FM SIGNAL LINE
: FM OSC SIGNAL LINE

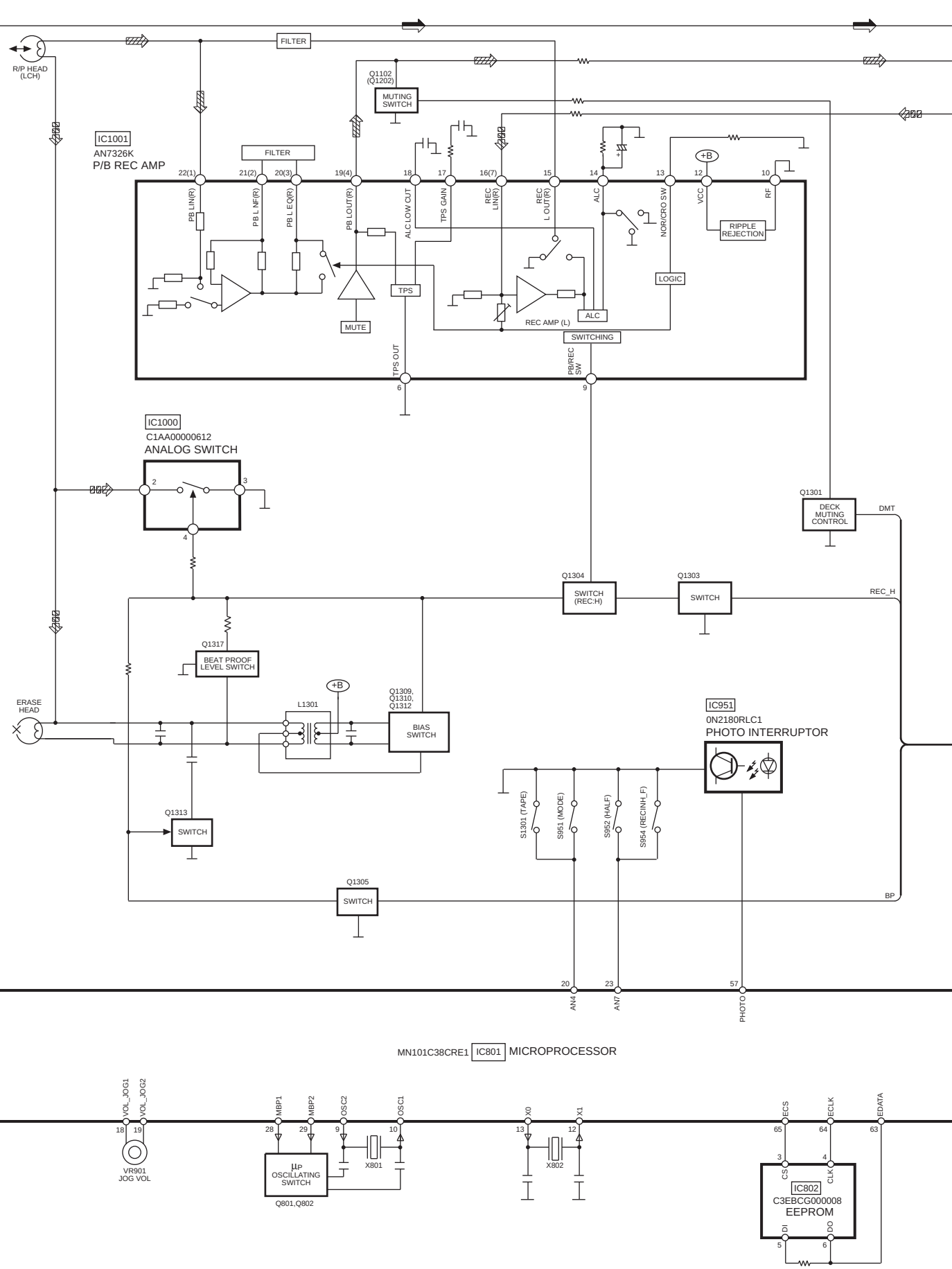


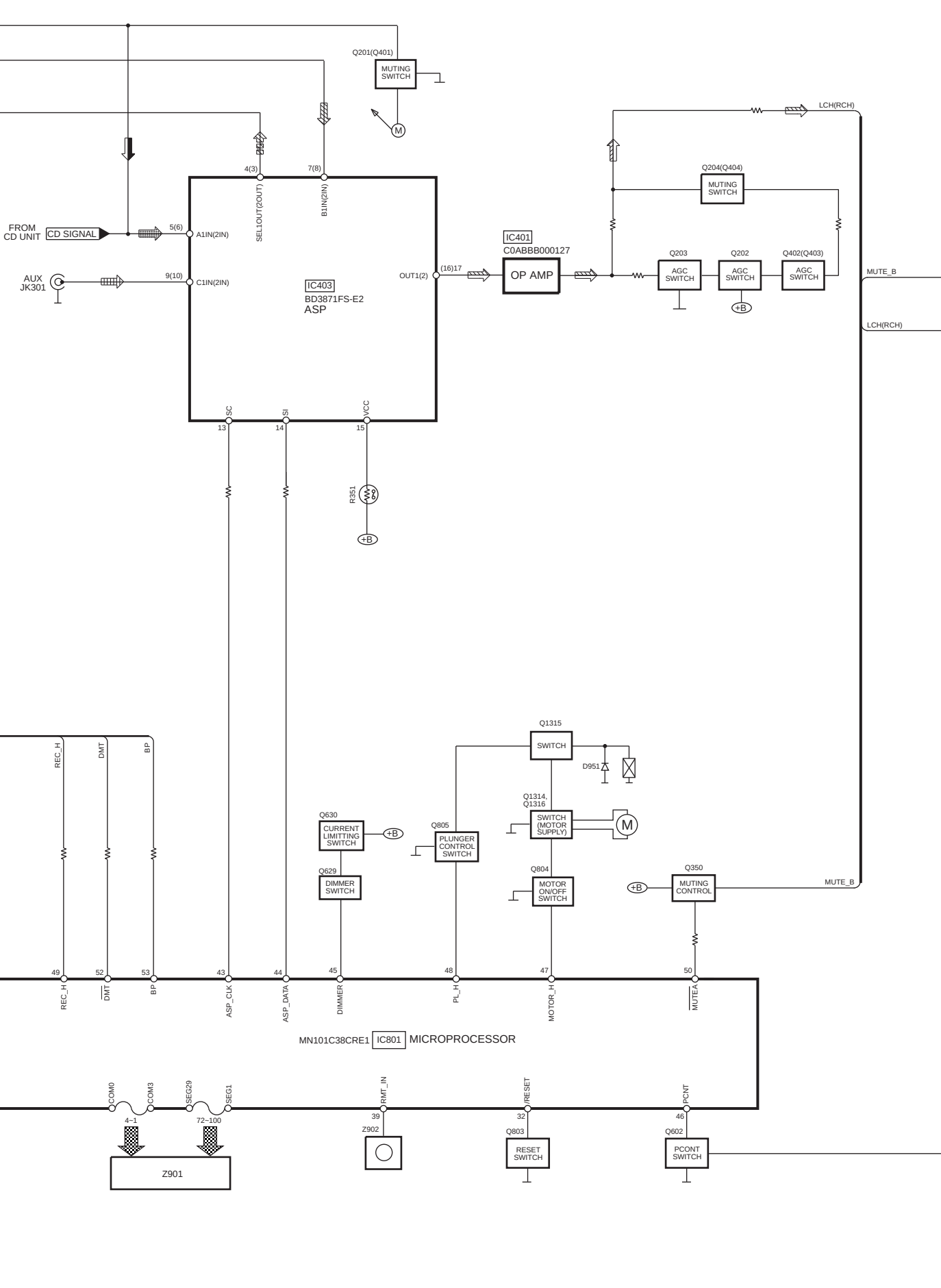

CD OPTICAL PICKUP
SEMICONDUCTOR LASER
PHOTO DETECTOR
IC701
AN8885SBE1
SERVO AMP
Q701
LASER POWER DRIVE
LPD
LD
PDA
PDB
PDE
PDF
RF
RF IN
DEFLVL
CSBRT
CEA
OFTR
3TENV
BDO
NRF DET.
ENV
OFT
BDO
/RFDET
FEN
FE OUT
FE
TEN
TE OUT
TE
VREF
VCC
RFEQ1
RFEQ2
AMP
GCA
BCA
SUB-TRACTOR
BAND GAP
LDON
PDOWN
EQSW
GCTL
TBAL
FBAL
RSEL
FCLK
+B
FOCUS COIL
TRACKING COIL
M701 TRAVERSE MOTOR
M702 SPINDLE MOTOR
F+
F-
T+
T-
TRV+
TRV-
SP+
SP-
D3-
D3+
D4-
D4+
D2+
D2-
D1+
D1-
[CH3]
[CH4]
[CH2]
[CH1]
LEVEL SHIFT
IN3
IN4
IN2
IN1
FOD
TRD
LOADING
TVD
ECS
ECM
PC
MUTE [CH1]
MUTE [CH2]
PC1
PC2
IC703
BA5948FPE2
BTL DRIVER


TO MAIN UNIT
E
IC702
MN662790RSC
SERVO PROCESSOR/DIGITAL SIGNAL PROCESSOR
DIGITAL FILTER/D/A CONVERTER
+B
70
78
79
80
IOSEL
PSEL
MSEL
SSEL
CLVS
CRC
BLKCK
/CLDCK
SBCK
SUBC
DEMPH
SQCK
SUBQ
PCK
PLLF
EFM
PLLF2
DSLF
DRF
ARF
RSEL
MLD
MCLK
MDATA
IREF
STAT
VCOF2
VCOF
BYTCK
CD-TEXT BUFFER
SUBCODE BUFFER
EFM DEMODULATION/ SYNC INTERPOLATION/ SUBCODE DEMODULATION
DSL/PLL VCO
DIGITAL DE-EMPHASIS
8 TIMES OVERSAMPLING DIGITAL FILTER
1 BIT DAC PWM LOGICS
PWM (R)
PWM (L)
OUTR
OUTL
(75)
73
CD SIGNAL
TO MAIN UNIT
FLAG
65
IPFLAG
64
TX
6
16K SRAM
CIRC ERROR CORRECTION/ DEINTERLEAVE
DIGITAL AUDIO INTERFACE
DIGITAL AUDIO INTERFACE
INTERPOLATION/ SOFT MUTING/ DIGITAL ATTENUATION
ECM
ECS
PC
LRCK
SRDATA
BCLK
DMUTE
DSLF2
KICK
TRV
VREF
TVD
TRD
FOD
TBAL
FBAL
/TLOCK
/FLOCK
D/A CONVERTER
OUTPUT PORT
MICRO COMPUTER INTERFACE
SERVO CPU
VCO
TIMING GENERATOR PITCH CONTROL
A/D CONVERTER
INPUT PORT
SERVO TIMING GENERATOR
SMCK
FCLK/GCT
CSEL
X2 OUT
X1 IN
FE
TE
RFENV
TRCRS
VDET
BDO
/RFDET
OFT
SENSE
/RST
LDON
WVEL
X701
(16.9344 MHz)


FM ANT
AM ANT
Z120
MIXER
RF AMP
OSC
BUFFER
CF201
Q101,Q102
SWITCHING ,FM IF AMP
CF202
Z101
AM ANT COIL
AM OSC COIL
(FM)
+B
IC101
LA1833NMNTLM
IF & MPX
RCH
ALC
AM OSC
BUFFER
AM MIX
AM RF AMP
DECODER
PILOT CANCEL
PHASE DET
AGC
LEVEL DET
S-CURVE
AM IF
AM DET
STEREO SWITCH
FM IF
FM DET
AM/FM IF BUFFER
COMP
VCO
TUNING DRIVE
FF
PILOT DET
REG
SD
ST
X102
Z102
AM IFT
ST/DO
PHASE DETECTOR CHARGE PUMP
REFERENCE DIVIDER
X103
UNLOCK DETECTOR
SWALLOW COUNTER 1/6,1/17,4 BITS
12 BITS PROGRAMMABLE DIVIDER
UNIVERSAL COUNTER
SHIFT REGISTER LATCH
C2B I/F
DO
CE
DI
CL
POWER ON RESET
Q106
POWER SUPPLY SWITCH
IC102
LC72131MDTRM
PLL
E


MCLK
SQCK
LOADING
Q303
STAT
INTERFACE
Q302
SUBQ
INTERFACE
ST/DO
Q301
BLKCK
INTERFACE
MLD
/RST
MDATA
KEY SW
M
36
30
35
38
61
26
41
34
33
27
37
16,17
62
MDATA
CD_RESET
MLD
BLKCK
PLL_DO/ST
SUBQ
STAT
CD_CLOSE
CD_OPEN
SQCK
MCLK
KEY1,KEY2
T_MUTE
CE
59
PLL_CE
DI
60
PLL_DI
CL
58
PLL_CLK
SD
51
SD
MN101C38CRE1
IC801
MICROPROCESSOR
REST_SW
CD OPEN_SW
HALT
31
21
40
S701(RESET)
S905(CD OPEN)
Q600
SYSTEM
HALT
SWITCH

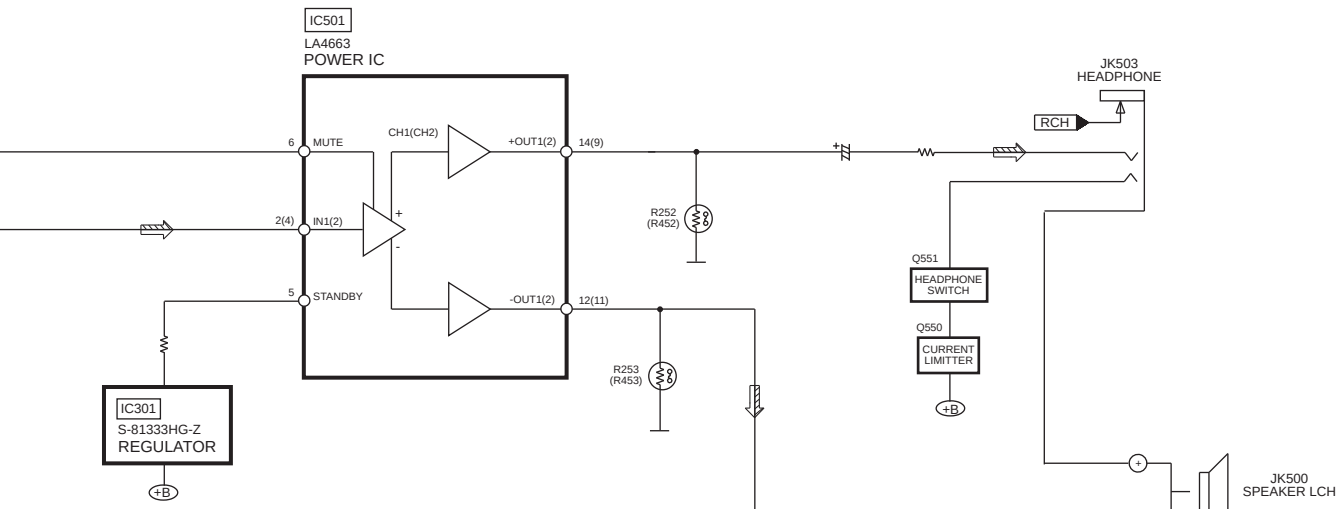

R/P HEAD (LCH)
FILTER
Q1102 (Q1202)
MUTING SWITCH
IC1001
AN7326K
P/B REC AMP
FILTER
22(1)
21(2)
20(3)
19(4)
18
17
16(7)
15
14
13
12
10
PB LIN(R)
PB L NF(R)
PB L EQ(R)
PB LOUT(R)
ALC LOW CUT
TPS GAIN
REC LIN(R)
REC L OUT(R)
ALC
NOR/CRO SW
VCC
RF
+B
RIPPLE REJECTION
LOGIC
TPS
MUTE
REC AMP (L)
ALC
SWITCHING
TPS OUT
6
PB/REC SW
9
IC1000
C1AA00000612
ANALOG SWITCH
2
3
4
Q1301
DECK MUTING CONTROL
DMT
Q1304
SWITCH (REC:H)
Q1303
SWITCH
REC_H
Q1317
BEAT PROOF LEVEL SWITCH
ERASE HEAD
+B
L1301
Q1309, Q1310, Q1312
BIAS SWITCH
IC951
0N2180RLC1
PHOTO INTERRUPTOR
S1301 (TAPE)
S951 (MODE)
S952 (HALF)
S954 (RECINH_F)
Q1313
SWITCH
Q1305
SWITCH
BP
20
23
57
AN4
ANT
PHOTO
MN101C38CRE1
IC801
MICROPROCESSOR
VOL_JOG1
VOL_JOG2
18
19
VR901
JOG VOL
MBP1
MBP2
OSC2
OSC1
28
29
9
10
μP OSCILLATING SWITCH
X801
Q801,Q802
X0
X1
13
12
X802
ECS
ECLK
EDATA
65
64
63
3
4
CS
CLK
IC802
C3EBCG000008
EEPROM
DI
DO
5
6

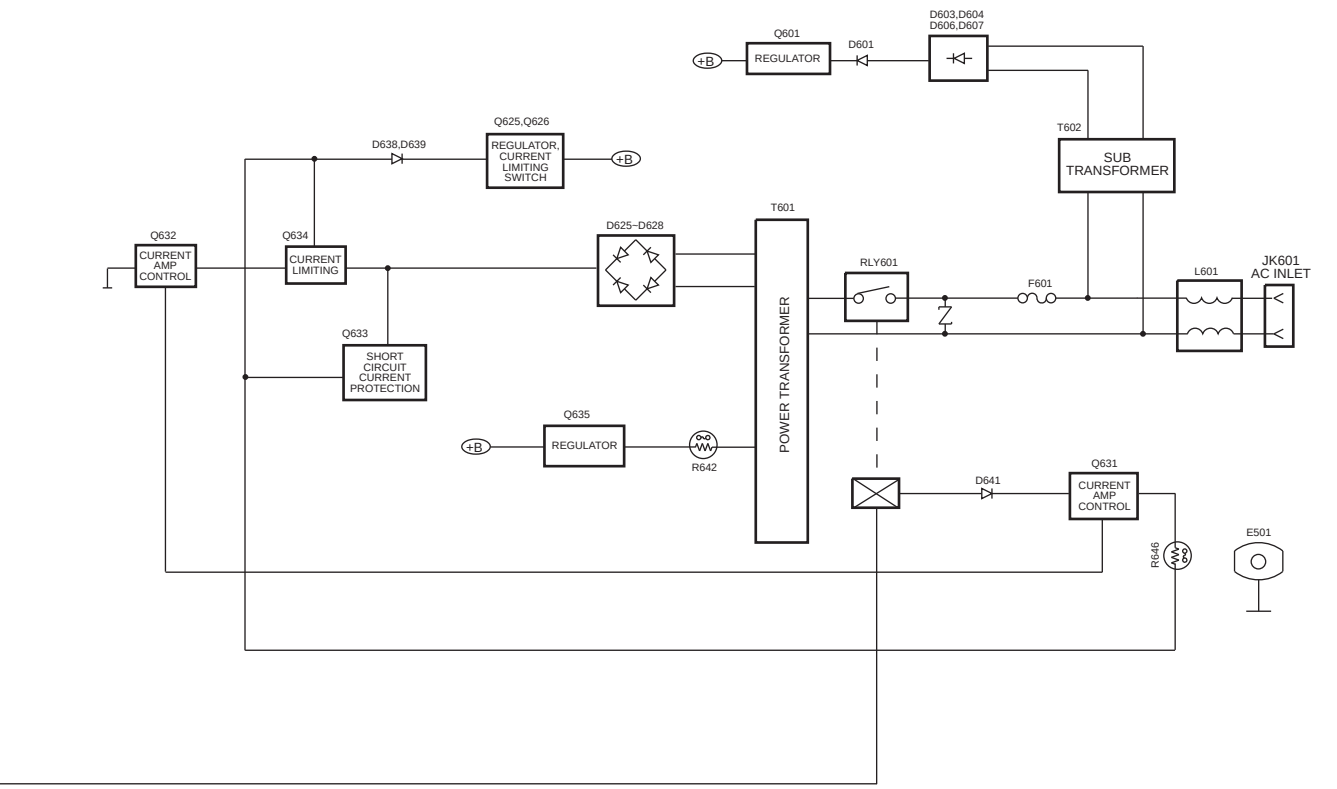

Q201(Q401)
MUTING SWITCH
M
LCH(RCH)
Q204(Q404)
MUTING SWITCH
4(3)
7(8)
SEL1OUT(2OUT)
B1IN(2IN)
FROM CD UNIT
CD SIGNAL
5(6)
A1IN(2IN)
IC401
C0ABBB000127
OP AMP
Q203
AGC SWITCH
Q202
AGC SWITCH
Q402(Q403)
AGC SWITCH
+B
MUTE_B
LCH(RCH)
AUX JK301
9(10)
C1IN(2IN)
IC403
BD3871FS-E2
ASP
OUT1(2)
(16)17
SC
SI
VCC
13
14
15
R351
+B
Q1315
SWITCH
D951
Q1314, Q1316
SWITCH (MOTOR SUPPLY)
Q630
CURRENT LIMITTING SWITCH
+B
Q805
PLUNGER CONTROL SWITCH
Q629
DIMMER SWITCH
Q804
MOTOR ON/OFF SWITCH
Q350
+B
MUTING CONTROL
MUTE_B
REC_H
DMT
BP
49
52
53
43
44
45
48
47
50
REC_H
DMT
BP
ASP_CLK
ASP_DATA
DIMMER
PL_H
MOTOR_H
MUTEA
MN101C38CRE1
IC801
MICROPROCESSOR
COM0
COM3
SEG29
SEG1
4~1
72~100
Z901
RMT_IN
39
Z902
RESET
32
Q803
RESET SWITCH
PCNT
46
Q602
PCONT SWITCH

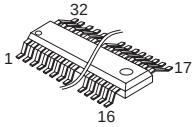
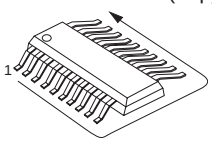
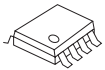
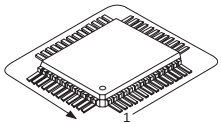
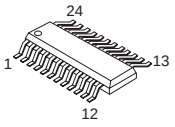
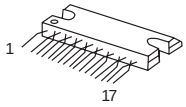
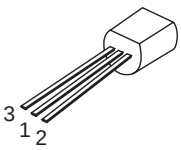
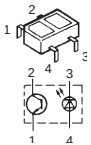
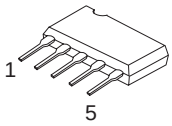
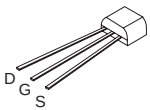
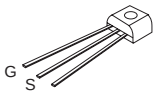
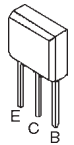
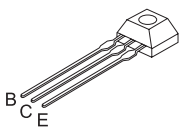
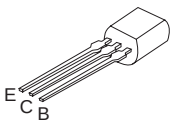
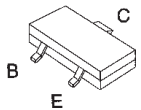
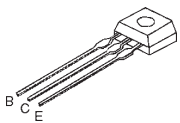
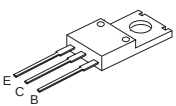
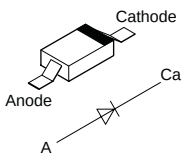
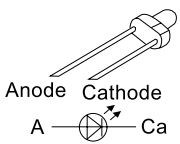
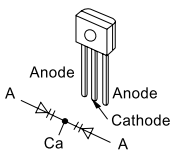
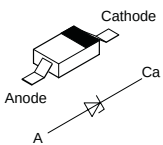
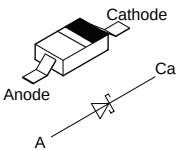
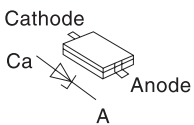
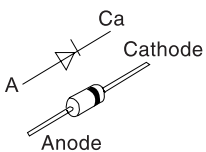
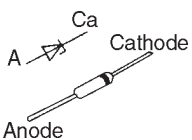
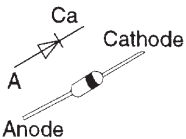
SIGNAL LINES

MAIN SIGNAL LINE	CD SIGNAL LINE	AM SIGNAL LINE	PLAYBACK SIGNAL LINE
FM OSC SIGNAL LINE	AM OSC SIGNAL LINE	FM & AM SIGNALS LINE	RECORDING SIGNAL LINE
FM SIGNAL LINE	CD-DA (AUDIO/VIDEO) SIGNAL LINE		AUX SIGNAL LINE

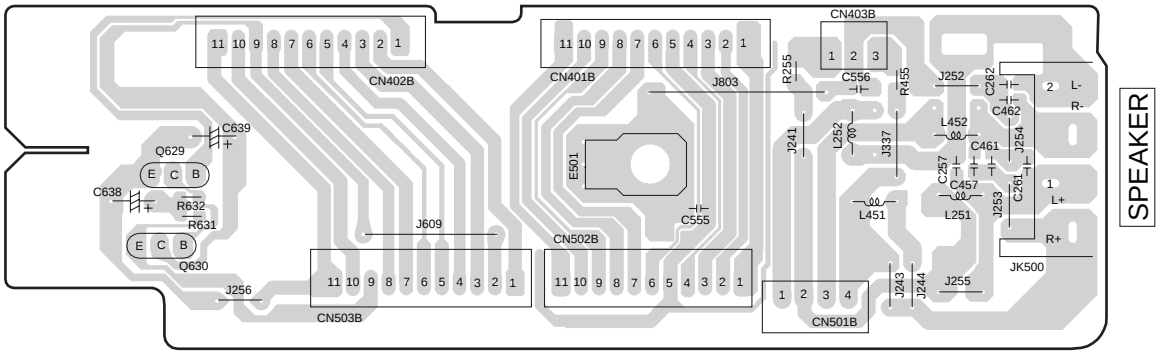
( ) INDICATES THE PIN NO. OF THE RIGHT CHANNEL



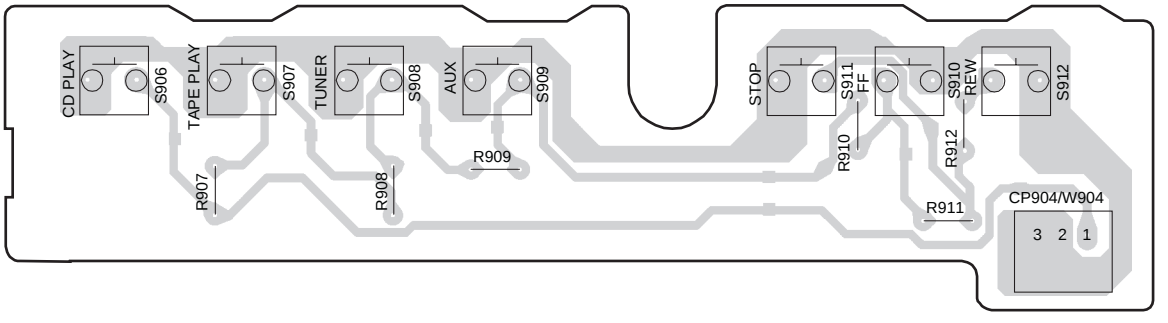


BA5948FPE2 (28P) AN7326K (26p) 	AN8885SBE1 (28p) C3EBCG000008 (16p) LA1833NMNTLM (24p) LC72131MDTRM (20p) 	C0ABBB000127 	MN662790RSC(80P) MN101C38CRE1(100P) 	BD3871FS-E2 	LA4663 
S-81333HG-Z 	0N2180RLC1 	C1AA00000612 	B1DEDQ000004 	2SK544F-AC 	2SC2058SPTA 2SC1741ASTPR 
KRA102MTA KRC102MTA KRC119MTA KRA110TA KRC111MTA		2SA952LTA 2SD0592ARA 2SC1845FTA 2SC2201LTA 2SD09650RA KTA12710YTA		KTC3875GRTA KTD1304TA KRC101STA KRC104STA KRA111STA 2SA1037AKSTX 2SC2712GRT5T	DTC143XUA106 
B1AAAC000011 B1AAAD000013 2SC1740SRTA KTC3199GRTA 	KTA1046 KTC2026 	1SS380TE-17 	SLI343YC3F SLC-22VR 	B0CAAD000002 	MAZ80560ML 
B0ACCK000005 	UDZSTE175R1B UDZSTE177R5B 	RL1N4003S-P 1N5402BM21 	B0BA6R800007 B0BA5R600016 B0BA5R000004 B0BA7R900004 MTZJ16ATA		B0AACK000004 MA165TA 

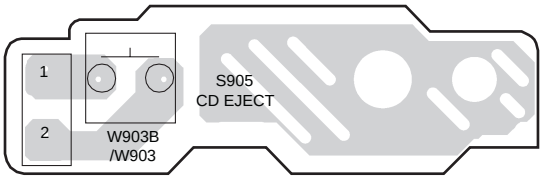
C SPEAKER P.C.B. (REPV0001A)



E SWITCH P.C.B. (REPV0002A)



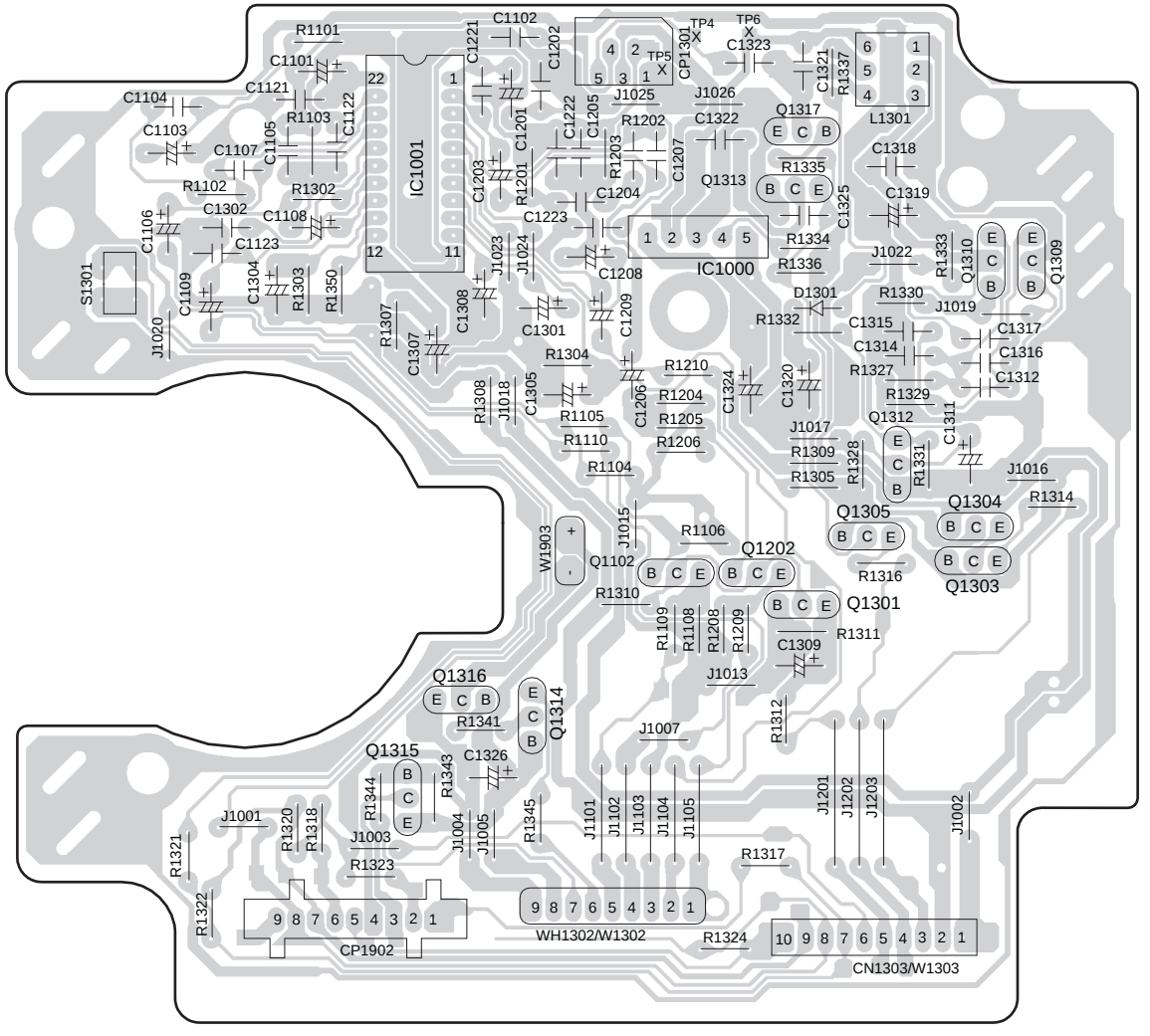
H CD OPEN P.C.B. (REPV0002A)



A B C D E F G

1 2 3 4 5 6 7 8 9

F DECK P.C.B. (REPX0240C)



A B C D E F G

1 2 3 4 5 6 7 8 9

B MAIN/TUNER P.C.B. (REPV0001A)